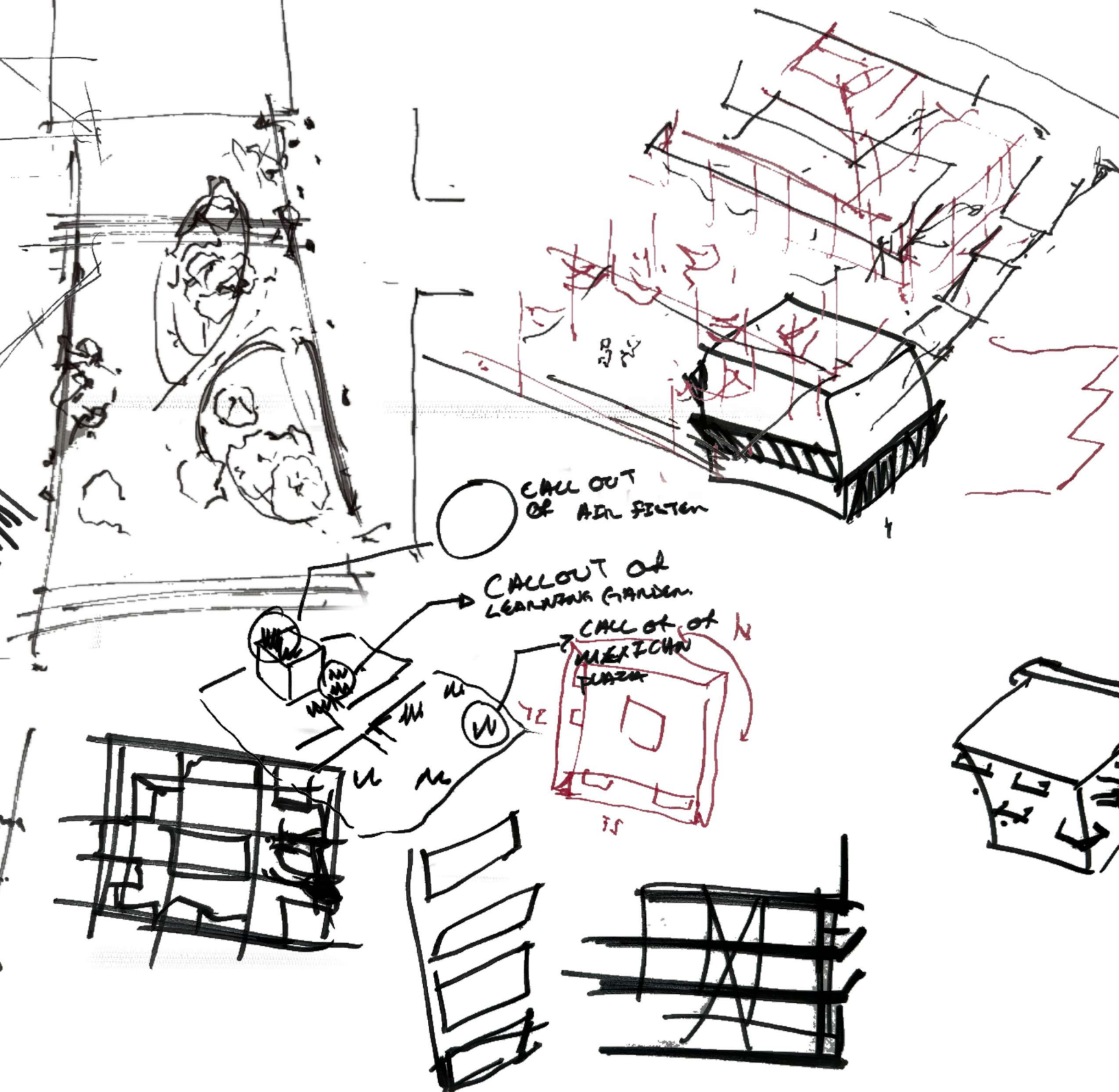


PORTFOLIO

OF SELECTED WORK



A COLLECTION OF UNDERGRADUATE WORK

WHY ARCHITECTURE?

I used to believe that architecture was the highest form of art. Since graduating from Clemson University in May 2025, I have felt more alienated from that belief. Part of this change comes from my ongoing search for an internship or entry-level position to gain real world experience before returning to graduate school. While that search has not been successful, I've spent my time helping my parents with their landscape and cleaning business.

The work isn't physically demanding, but it has given me a different perspective. Moving through my hometown, I've found myself observing not just buildings, but the communities and families that live within them. I've realized that the success of our work often comes from the relationships we build with the people we serve. That sense of connection feels, in its own way, architectural.

Interpersonal relationships can be woven into what we consider "architecture." Beyond structural integrity and function, great architecture can, and should, reflect and respond to its community, to its context, culture, and, most importantly, its people.

Recently, one of our neighbors asked my dad and me to help lay gravel and fix his front yard. He could have hired anyone, but he chose us. After we finished, he said, "My yard looks brand new. You have no idea how happy my wife is." That simple moment felt profoundly human. It reminded me that design, like this kind of work, is ultimately about people.

What architecture has come to mean for me is just that: an interpretation of the people it represents. Every project in this portfolio (except the last one) reflects that belief, whether consciously or not. I want to keep exploring this relationship a building can have with its people. Making it more whole than just creating a piece of art.

JOHN TREJO-CHAVEZ

About

At 24 years old, I'm experienced in small and big architectural projects, including education, historic and medical facilities. Seeking to join an Architectural firm as an Architecture Intern or entry level designer to gain experience and AXP hours.

EDUCATION

May 8, 2025
Clemson University
Bachelor of Arts in
Architecture
Minor in Construction

May 15, 2022
Greenville Tech. Col.
Associate in Arch.
drafting

SKILL SET

Adobe Suite
Photoshop
Illustrator
Indesign
After Effects

Drafting softwares
Revit
Autocad
Sketch up
Rhino 7

EXPERIENCE

Jan 2024 - May 2025
Novus Architects
Architectural Intern
assisted in design
development, and CD
production of various
medical facilities

Summer 2023
MOA Architects
Architectural Drafter
Assisted studio leaders
in developing CD of
retail facilities

3D Modeling
Revit
Rhino 7
Maya
Blender

Rendering
Enscape
Twin Motion
D5 render

Connect

Social
[Instagram.com](https://www.instagram.com/trejochavezjohn)
[Linkedin.com](https://www.linkedin.com/in/trejochavezjohn)

Publication
archive.org

Old School
864-923-8081
trejochavezjohn@gmail.
com

Expertise

Graphic design
Architectural
visualization
Layout design
Minimalism
Sketching
Photography
Digital design



TABLE OF CONTENT S

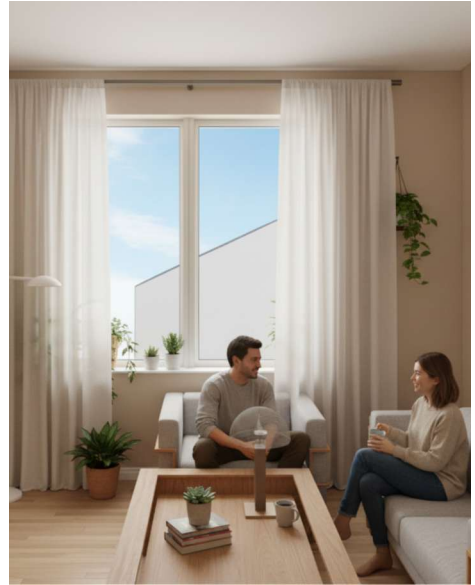
Book 1

El Mercado



Book 2

At Home in the Upstate



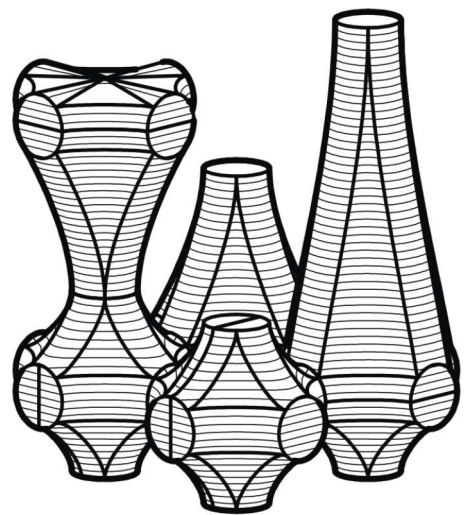
Book 3

The MARSH HQ

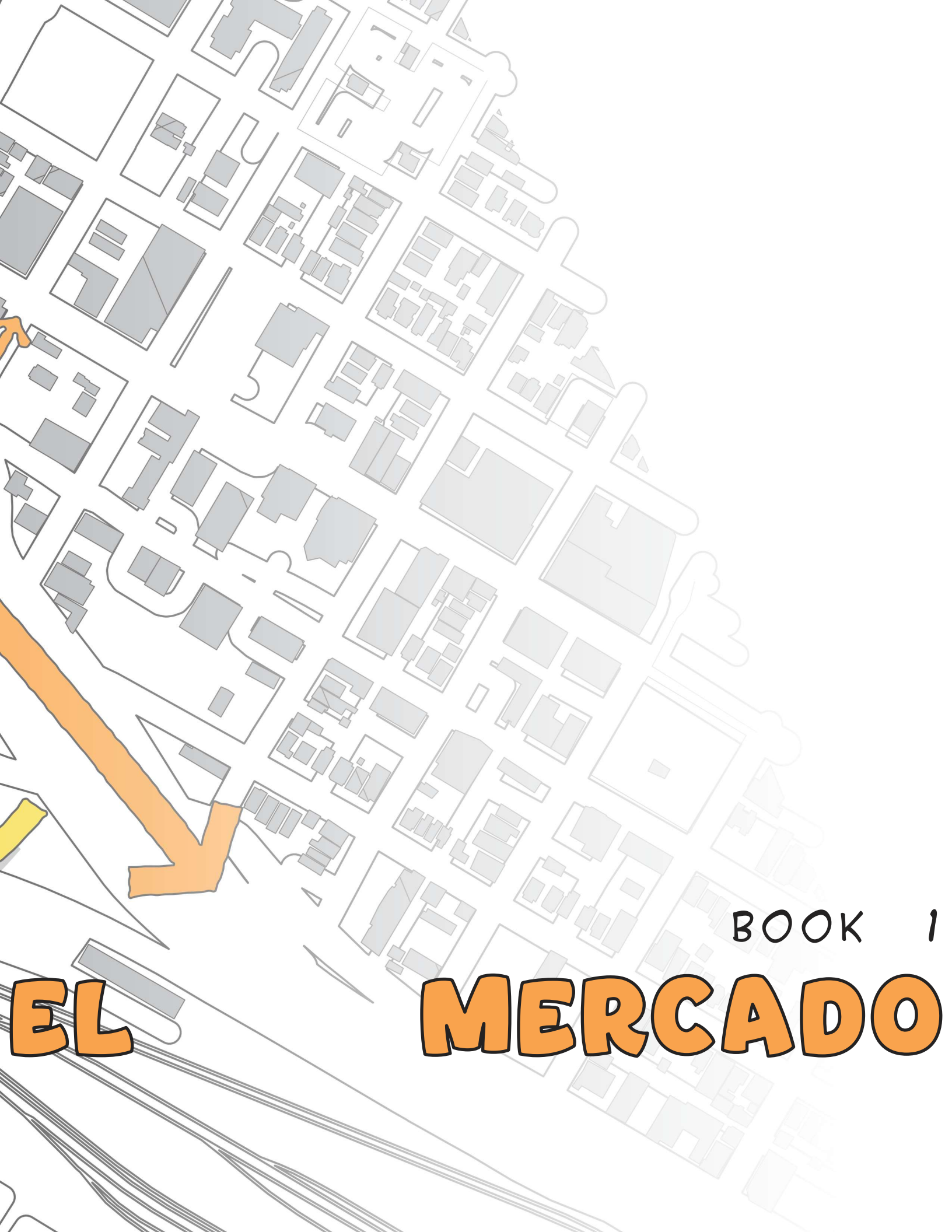


Book 4

Inter_Locking







BOOK 1

EL

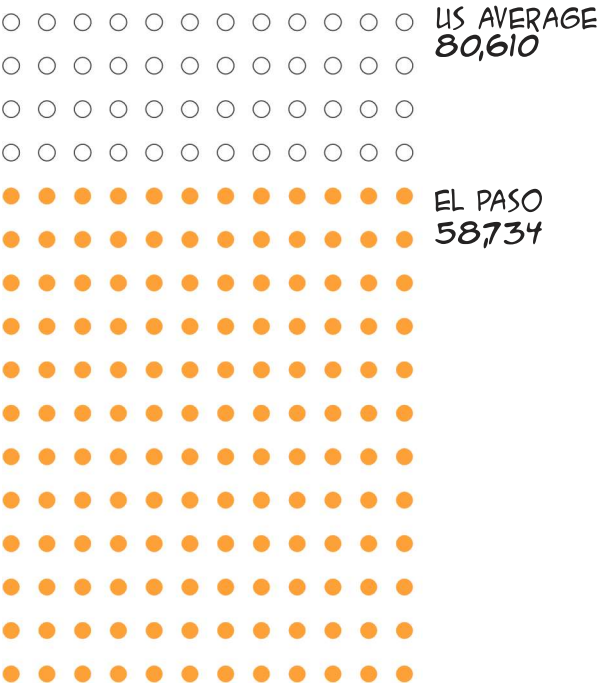
MERCADO

S I T E

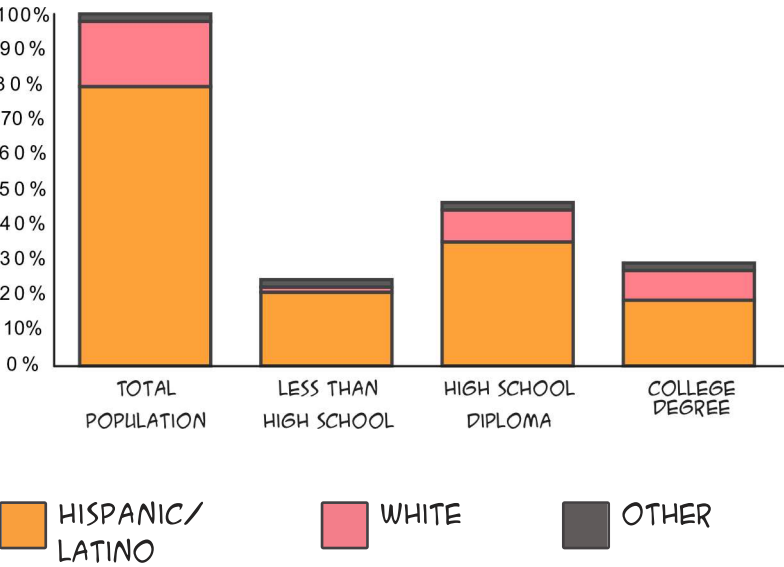
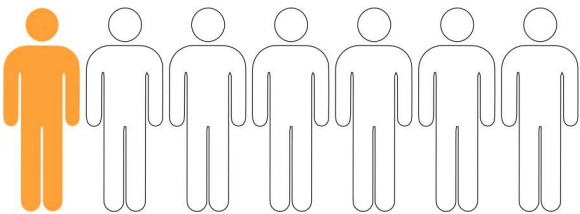
DEMOGRAPHICS

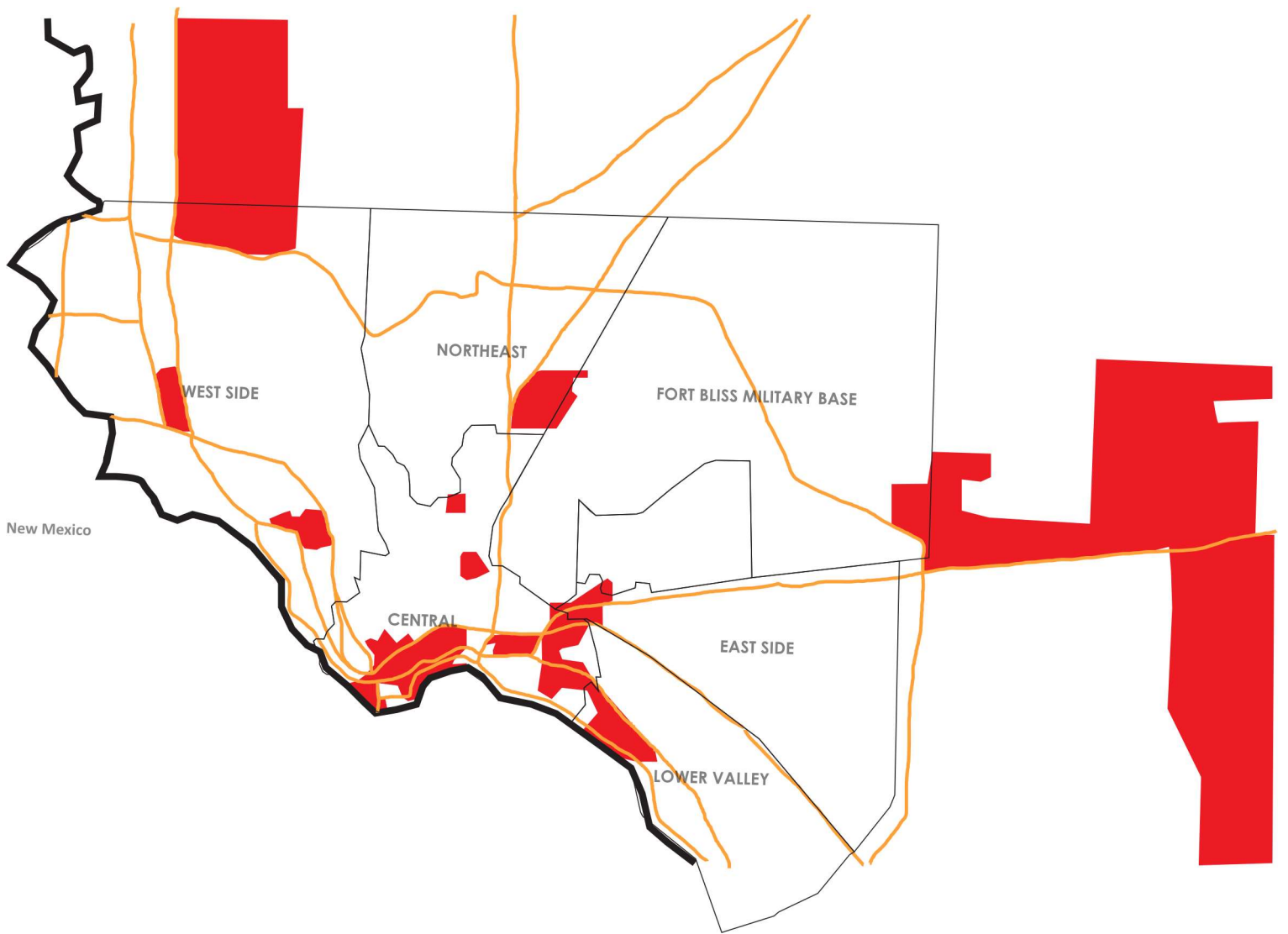
THIS SEMESTER, WE WERE CHALLENGED WITH ADDRESSING FOOD INSECURITY IN EL PASO, TEXAS; WITH THE MAIN GOAL TO PROVIDE 900 MEALS DAY. EL PASOANS AND TEXANS AS A WHOLE FACE A SIGNIFICANT CHALLENGE WITH FOOD INSECURITY. NONPROFITS AND FOOD PANTRIES WORK TIRELESSLY TO EXTEND THEIR REACH, FOCUSING ON SCHOOL DISTRICTS, UNDERSERVED NEIGHBORHOODS, LOW-INCOME RESIDENTS, AND MIGRANT FAMILIES THROUGH TARGETED PROGRAMS. FOOD INSECURITY OFTEN MIRRORS UNDERLYING ECONOMIC INSTABILITY. RESEARCH GIVES INSIGHTS TO POVERTY AND UNDEREMPLOYMENT AS KEY CONTRIBUTORS. FOR MANY HOUSEHOLDS, THIS STRUGGLE CAN BE TEMPORARY, BASED ON THEIR IMMEDIATE NEEDS AND CIRCUMSTANCES.

MEDIAN HOUSE HOLD INCOME



1 OUT OF 7 ARE FOOD INSECURE



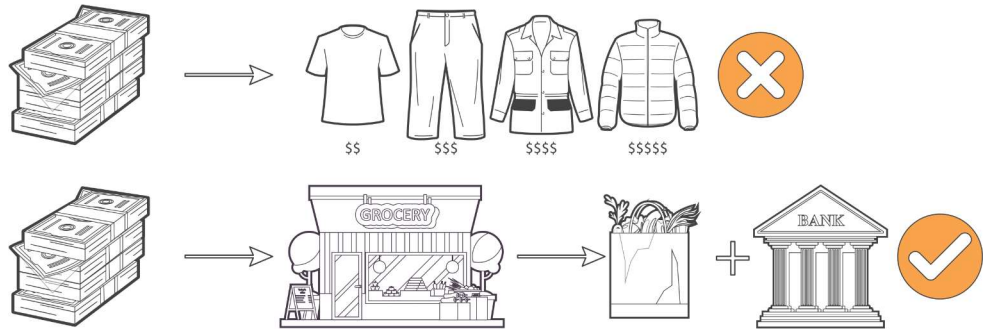


LOW INCOME AREAS

WHAT PREVENTS FAMILIES FROM SUCCEEDING? IN EL PASO'S MEXICAN CULTURE, SUCCESS IS OFTEN SEEN ONLY AS HAVING A JOB AND PROVIDING. BUT PRIDE AS A COMMUNITY CAN HOLD THEM BACK, ALONG WITH A LACK OF FINANCIAL LITERACY - CHOOSING THE NEWEST IPHONE OR DESIGNER BAG OVER ESSENTIALS LIKE FOOD FOR THEIR FAMILY OR A RAINY DAY FUND. IN THIS COMMUNITY, KIDS WATCH THEIR PARENTS AND REPLICATE THEIR CHOICES, CONTINUING A GENERATIONAL CYCLE.



ERIK BARAY
ASSOCIATE DIRECTOR
DEVELOPMENT



COMMUNITY

LEADERS

ERIK BARAY, A LOCAL DIRECTOR OF A NON PROFIT. MEETING WITH ERIK PROVIDED FIRST HAND EXPERIENCE WORKING IN COMMUNITY DEVELOPMENT. AS ONE OF THE DIRECTORS FOR KIDS EXCEL EL PASO, ERIK MANAGES CREATIVE PROGRAMS THAT WORK WITH THE STUDENTS. IN HIS EXPERIENCE, KIDS WHO GO THOUGH THE PROGRAM EXPERIENCE BETTER BEHAVIOR PATTERNS, BETTER ACADEMIC HABITS, AND BETTER AWARENESS AT HOME.



SELF DISCOVERY

CURIOSITY IS ENCOURAGE, ESPECIALLY IN YOUNG CHILDREN



CREATIVE VISUAL EXPRESSION

CREATIVE EXPRESSION IN THE VISUAL ARTS DEVELOPED BETTER COGNITIVE DEVELOPMENT INSIDE AND OUTSIDE THE CLASSROOM



CREATIVE PHYSICAL EXPRESSION

CREATIVE PHYSICAL EXPRESSION HELPS DEVELOP STRONG MINDS AND DEVELOPED THE FRONTAL LOBE



FAMILY ENGAGEMENT

ACTIVITIES TOGETHER AS A FAMILY HELPS DEVELOP BETTER SOCIAL SKILLS



BETTER HABITS

BETTER HABITS ARE LEARNED TO CREATE A FOUNDATION FOR A HEALTHY LIFE



ACADEMIC SUCCESS

ACADEMIC SUCCESS IS SUPPORTED FOR A BETTER EDUCATIONAL CAREER



NURTURE

ALL SKILLS DEVELOPED ARE PUT TO THE USE

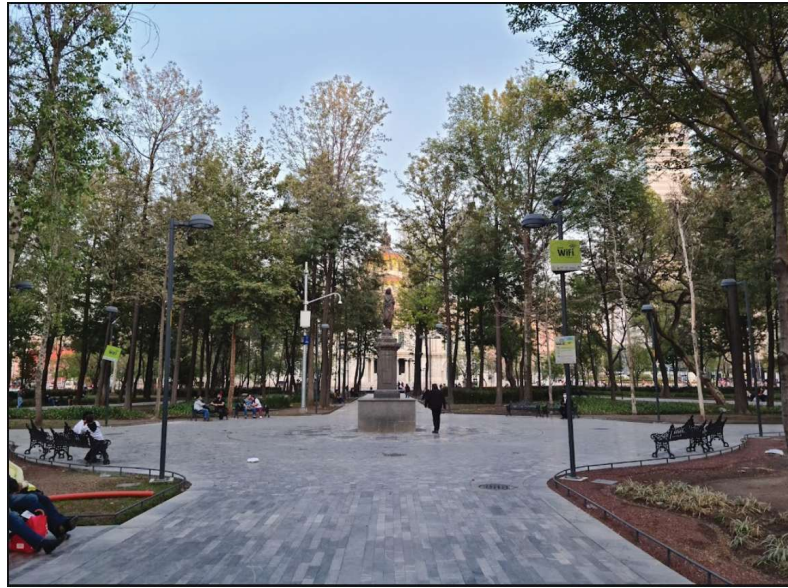
OUR

VALUES

THIS PROJECT AIMS TO PRICE THE RIGHT INSIGHT, SO THAT USERS CAN CULTIVATE PASSION WITHIN THE COMMUNITY, WHILE BY-PASSING THEIR PRIDE AS A CULTURE AND DE-STIGMATIZING NON-PROFIT HELP. BY PROVIDING SPACE TO GROW, FINANCIAL LITERACY AND ACADEMIC CLASSES, USERS ARE ABLE TO CREATE AND CULTIVATE THEIR OWN PASSION.

PUBLIC SPACE

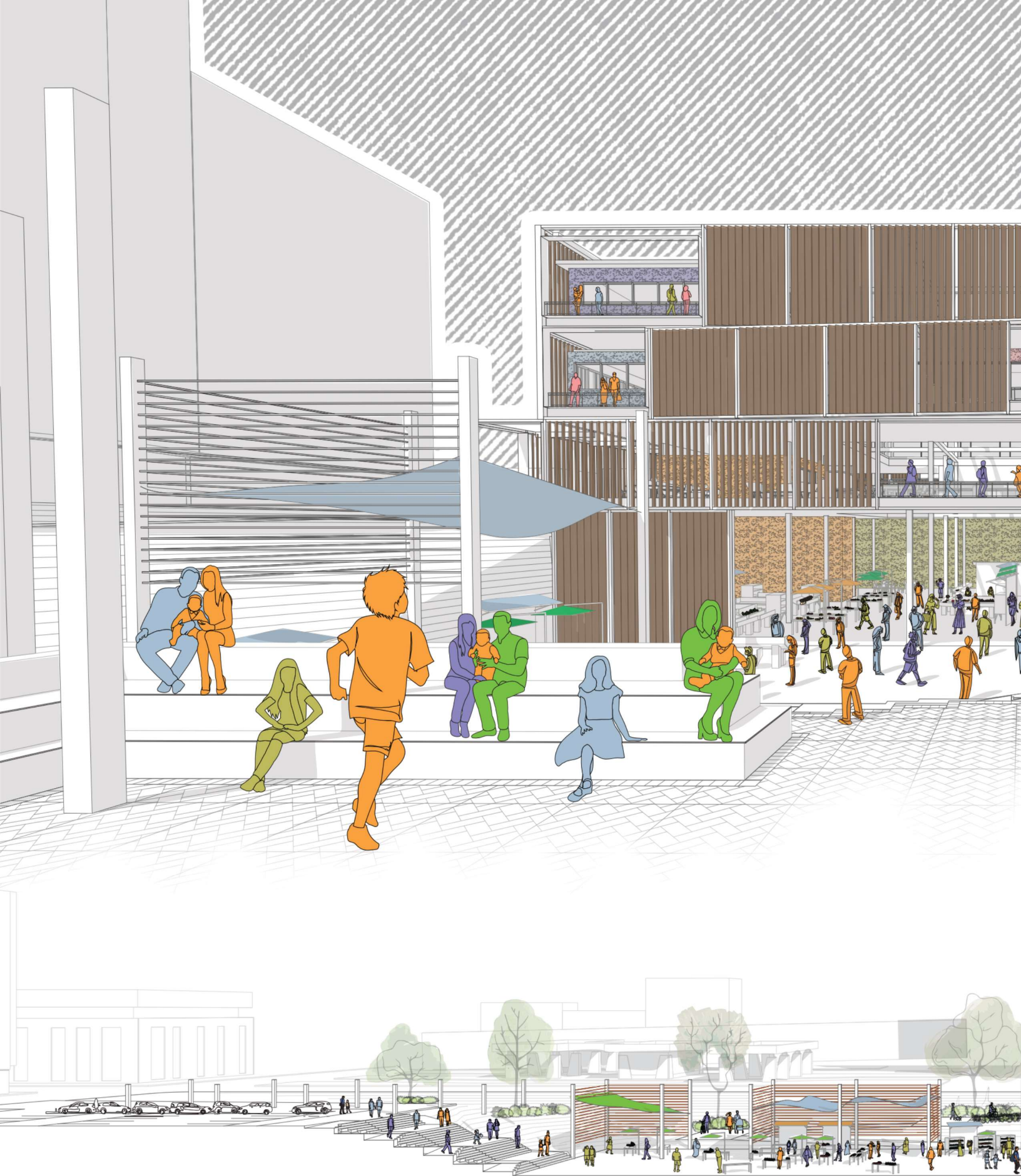
LIVELY HEART OF A TOWN, TRADITIONALLY LOCATED AT ITS CENTER AND SURROUNDED BY IMPORTANT BUILDINGS LIKE THE CHURCH, TOWN HALL, AND SHOPS OR CAFES. PLAZAS SERVE AS COMMUNITY HUBS WHERE FAMILIES MEET, CHILDREN PLAY, AND VENDORS SELL FOOD, WHILE ALSO HOSTING FESTIVALS, MUSIC, AND RELIGIOUS OR CIVIC EVENTS. BLENDING COLONIAL ARCHITECTURE WITH VIBRANT PUBLIC LIFE, THE PLAZA SYMBOLIZES THE SOCIAL AND CULTURAL SOUL OF THE COMMUNITY



T H E M A R K E T

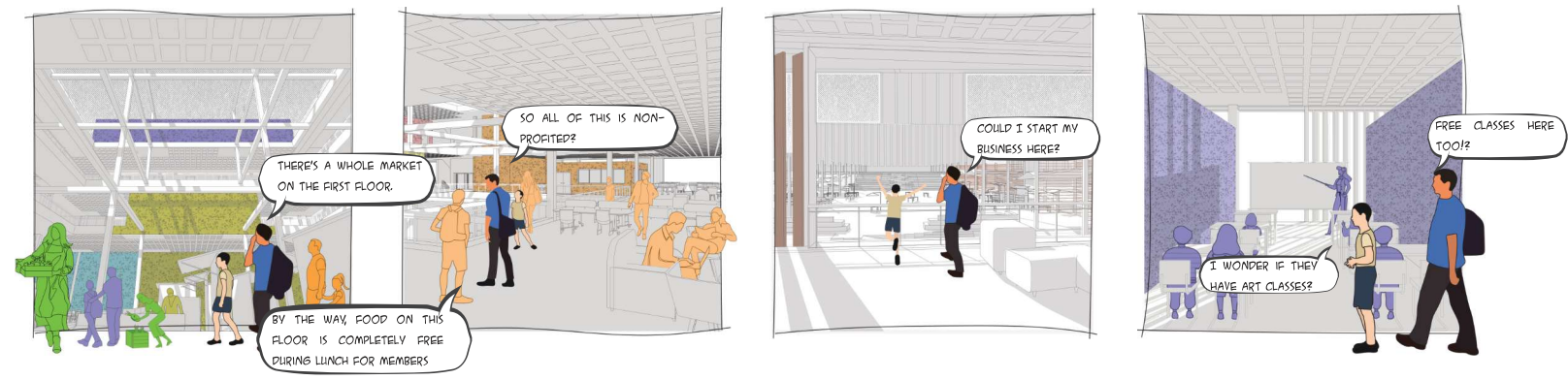
MARKETPLACE THAT SERVES AS BOTH A COMMERCIAL AND SOCIAL HUB, OFFERING A SENSORY-RICH EXPERIENCE FILLED WITH COLOR, AROMA, AND SOUND. USUALLY LOCATED NEAR THE TOWN CENTER, WHERE VENDORS SELL EVERYTHING FROM FRESH PRODUCE, MEATS, SPICES, AND TRADITIONAL FOODS TO CLOTHING, CRAFTS, AND HOUSEHOLD GOODS. THE ATMOSPHERE IS LIVELY, WHILE VENDORS CALL OUT TO ATTRACT CUSTOMERS. MORE THAN A MARKET, LOCALS GATHER TO MAINTAIN TRADITIONS, MAKING IT AN ESSENTIAL PART OF URBAN LIFE.



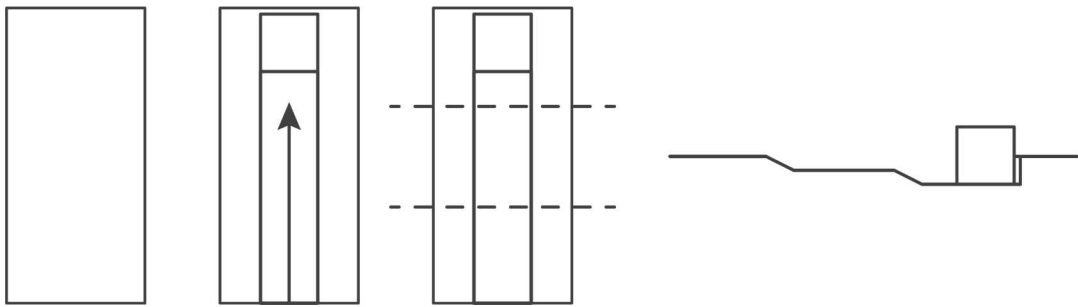


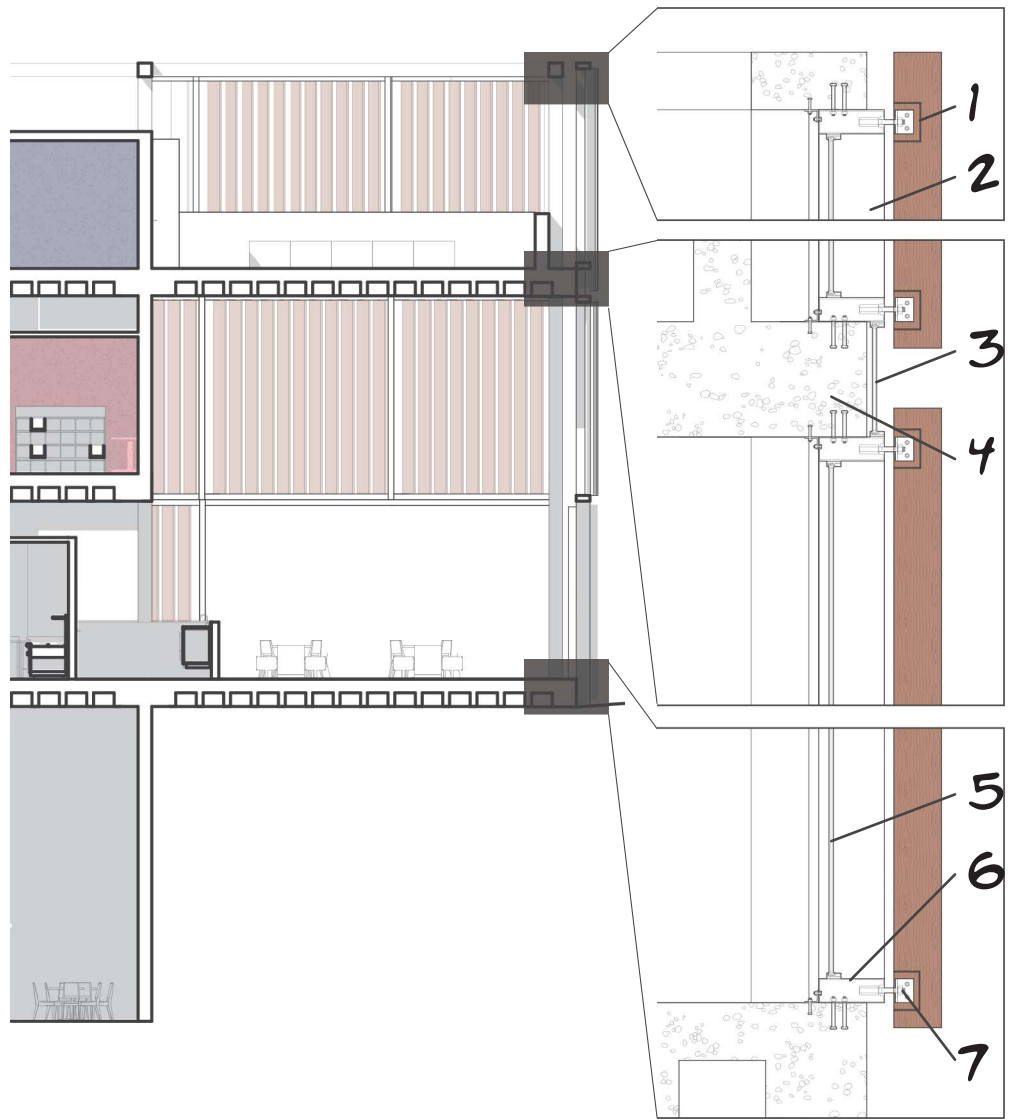
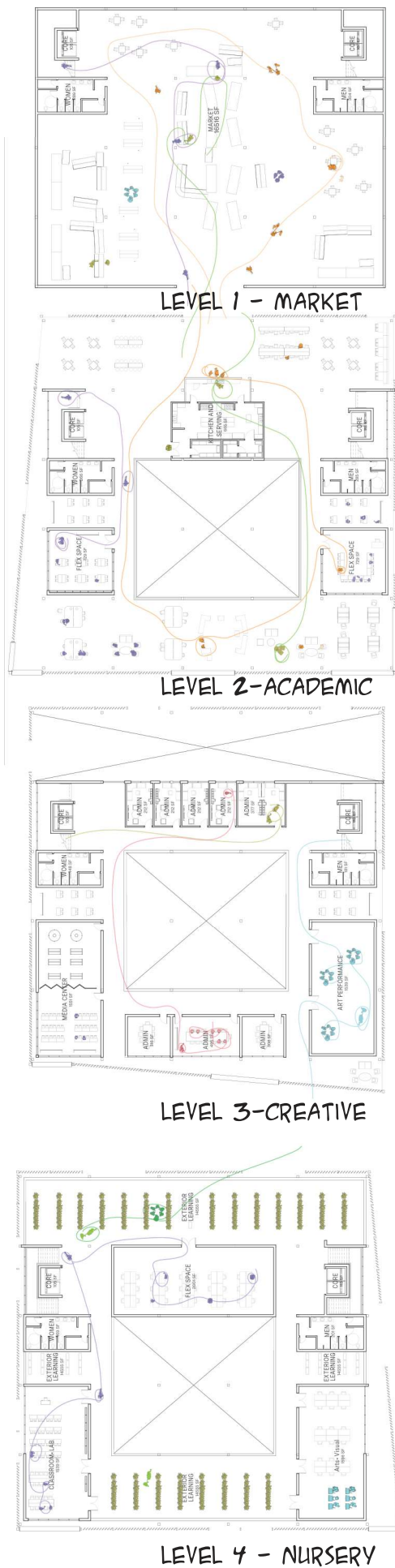


BENITO AND HIS DAD

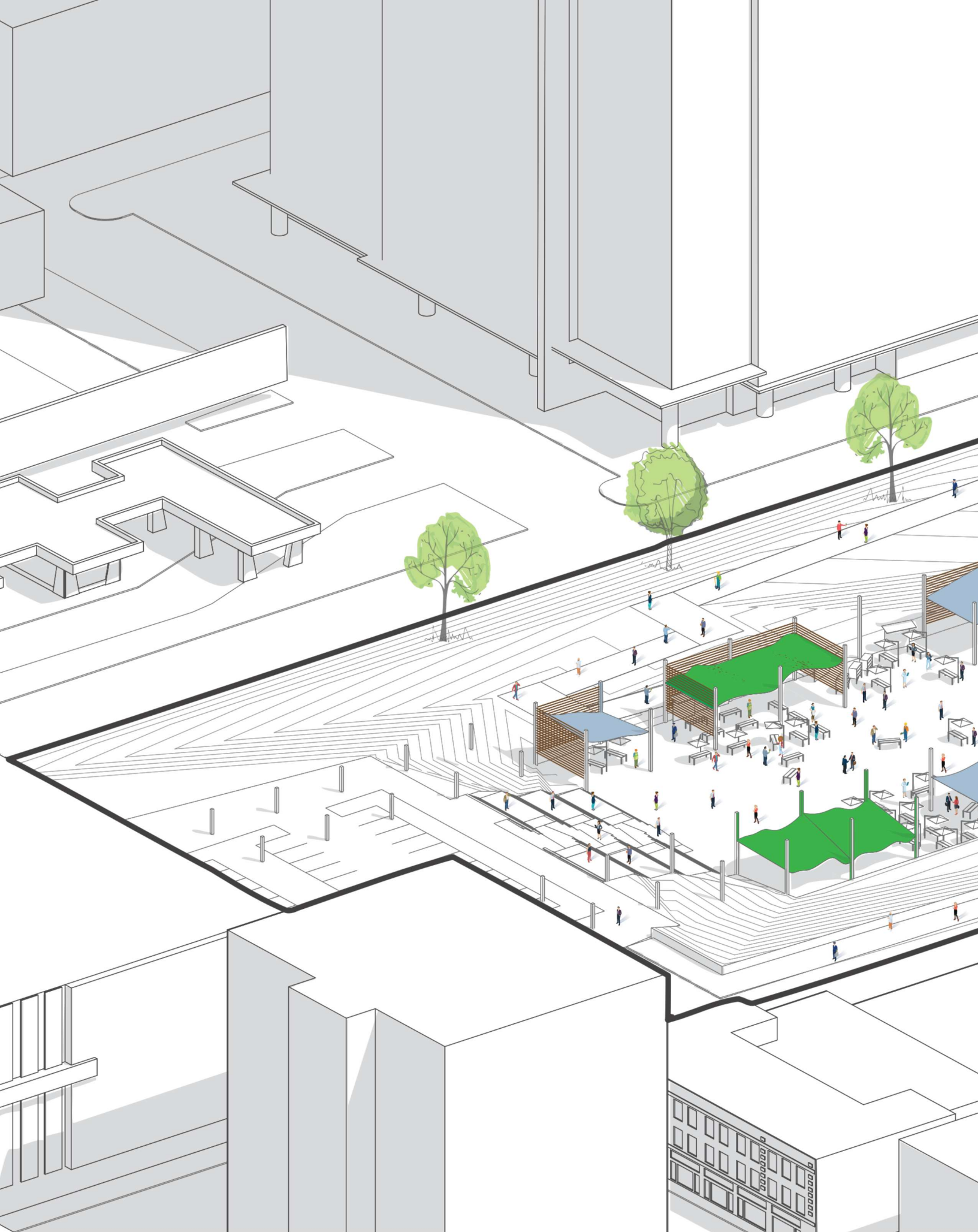


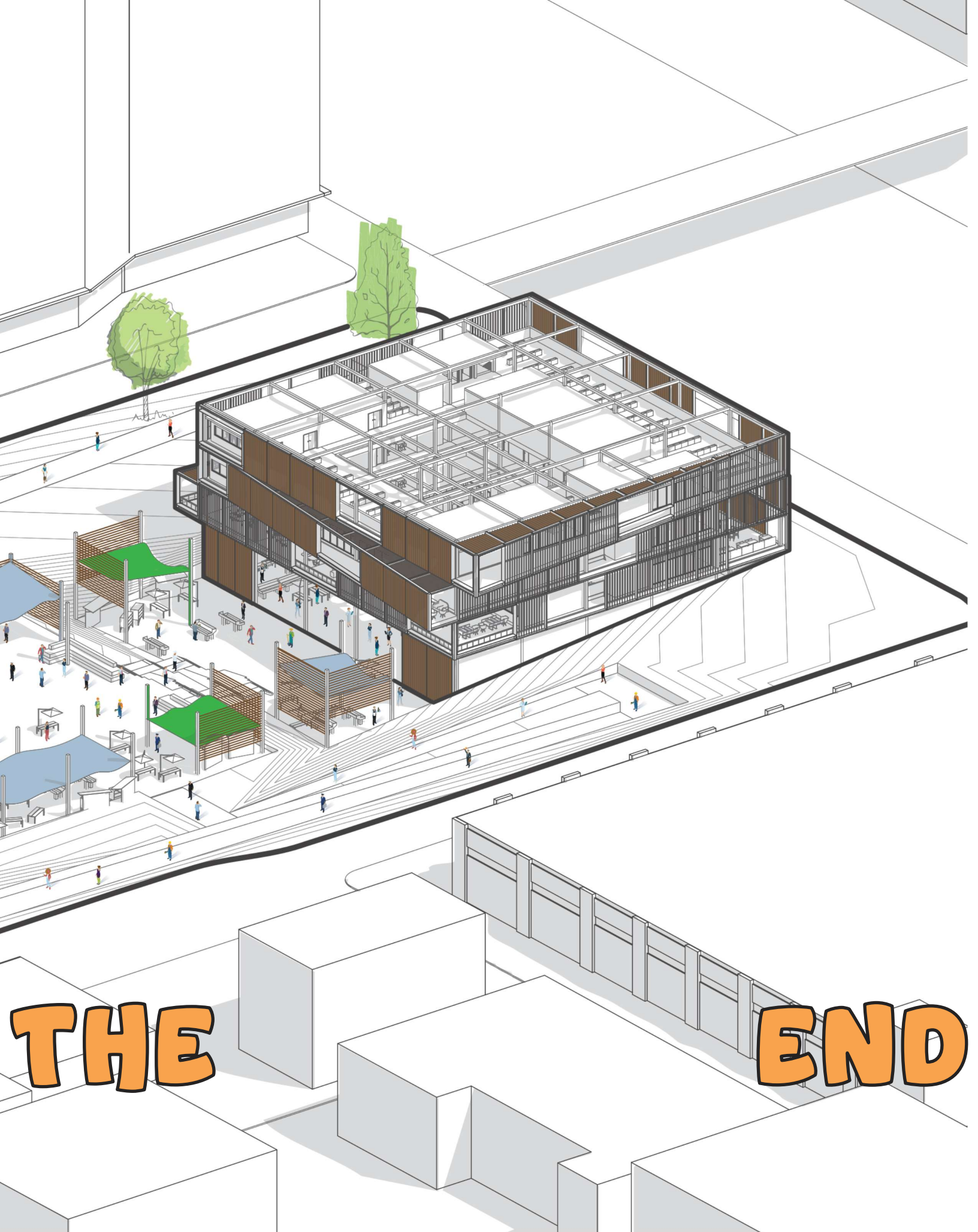
WHILE SHORT AND SWEET, THIS STORY EMPLOYS THE FUTURE VISION IN WHICH USERS MIGHT FLOURISH. WITHIN THE CULTURAL CONTEXT, USERS ARE ENCOURAGED TO GROW, EXPAND, AND UTILIZE THE RESOURCES AS MUCH AS POSSIBLE.





- 1) WOODEN LOUVER
- 2) DECORATIVE FIN ON MULLION
- 3) SPANDREL PANEL
- 4) WAFFLE CONC. PER STRUCTURAL
- 5) WINDOW GLAZING
- 6) MULLION ANCHORED TO STRUCTURE
- 7) SUPPORT BRACKET FOR LOUVER





THE

END

An isometric architectural illustration of a neighborhood. It features several houses of varying sizes and shapes, some with gabled roofs and others with flat roofs. There are several trees with detailed foliage scattered throughout the scene. A winding path or road cuts through the neighborhood. In the upper right, a small car is visible on a street. The overall style is clean and modern, using simple lines and flat colors.

A HOME IN THE U.S. STATE

BOOK

2

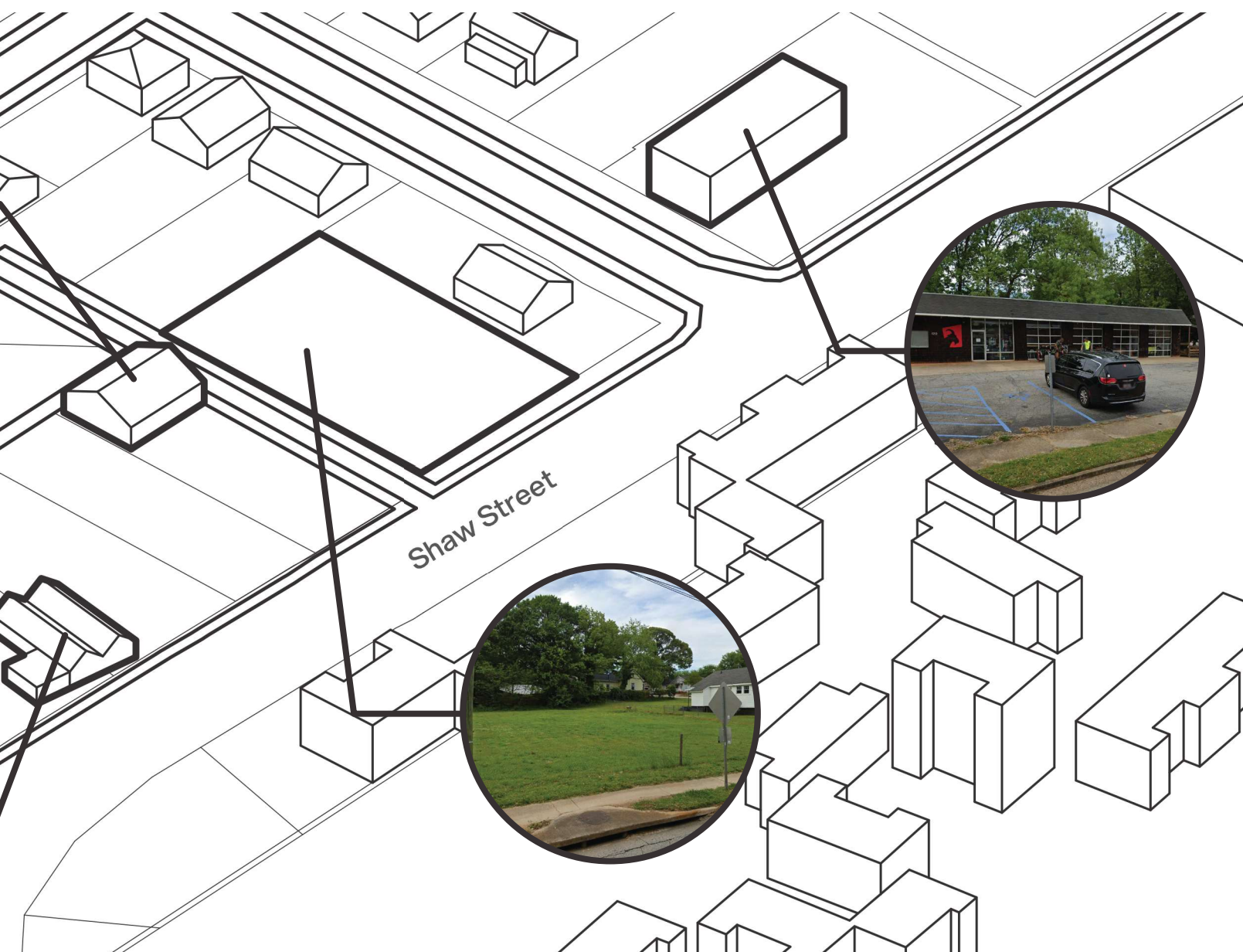


S I T E

C O N T E X T

This project took a look at the potential revitalization of the Poe Mill Neighborhood in Greenville, SC. This studio examined various methods of providing missing middle housing. Additionally, the studio aimed to include various energy efficient methods of construction, and provide a new connection to the community and its resilience in an urban fabric.





Along Shaw Street, there exists this promenade that has been developed over the years. Different community poles and stores have popped up that connect and benefit the community. By Bringing in a live-work typology to a streetscape that already contains community poles, it adds on to the development of Poe Mill.



ARCHITECT: Boyd Architects

CONTEXT: Charleston, SC

NOTES: Small SF, efficient use of framing materials



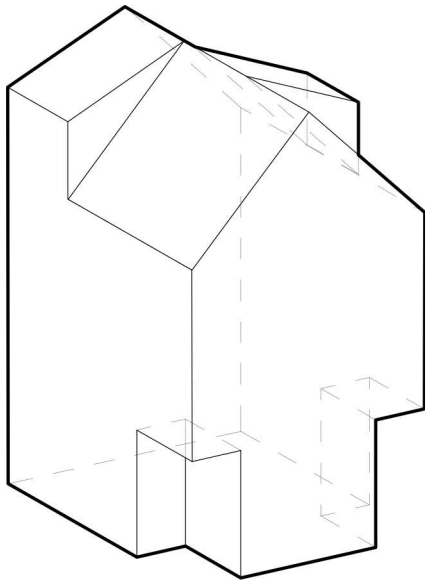
ARCHITECT: OJT

CONTEXT: New Orleans Louisiana

NOTES: Small SF, efficient use of framing materials, use of modularity concepts

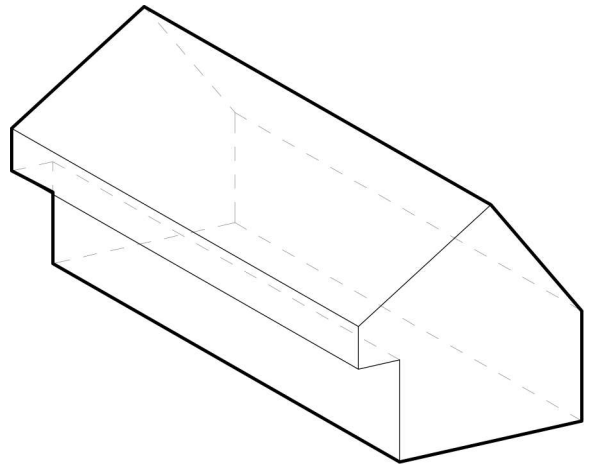
HOUSING

PRECEDENTS

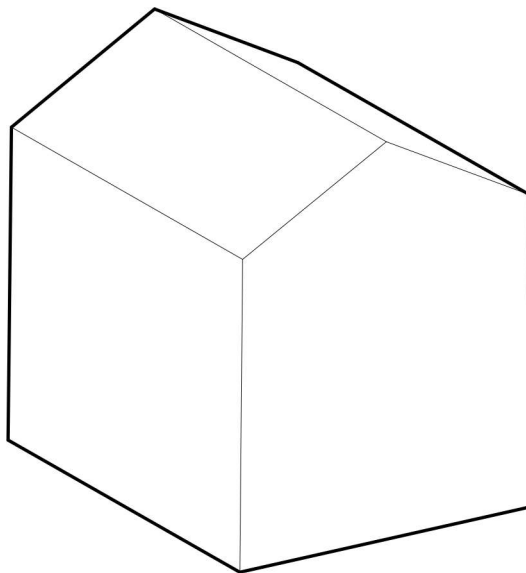


Small footprint

+
(Sum)



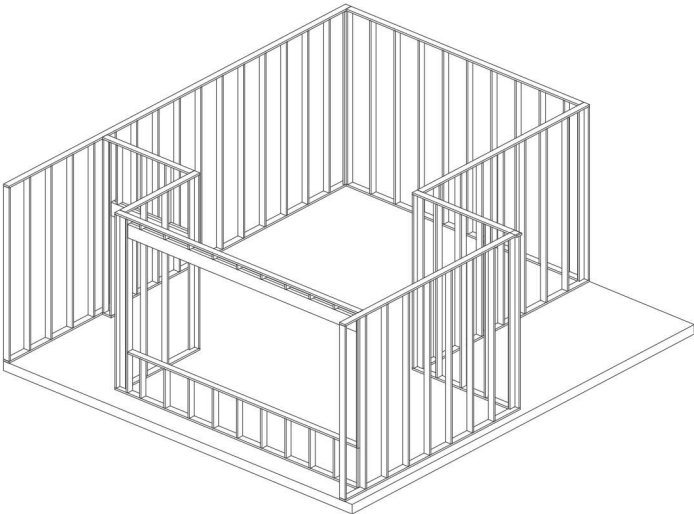
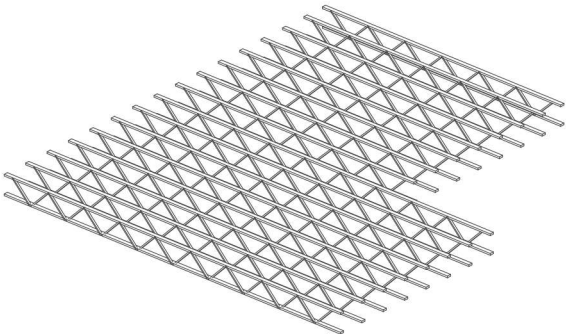
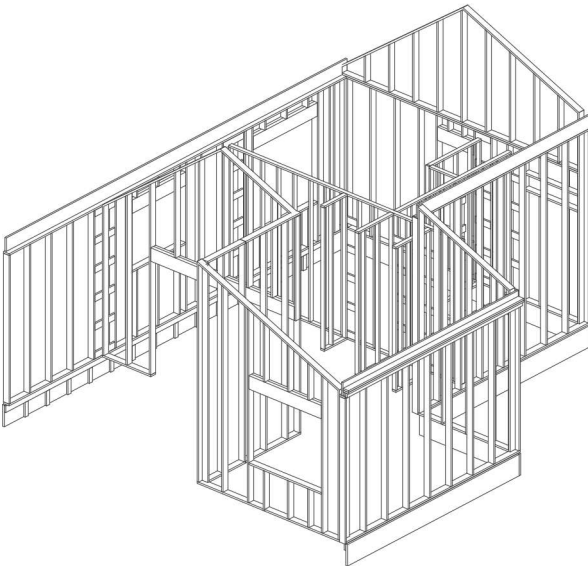
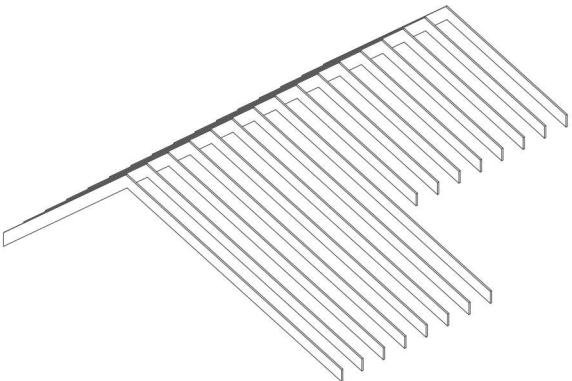
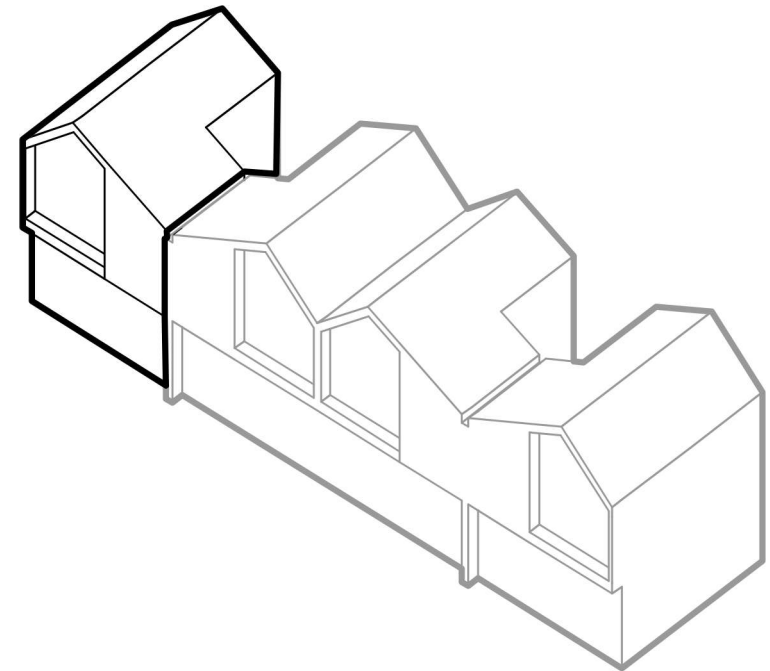
Modularity

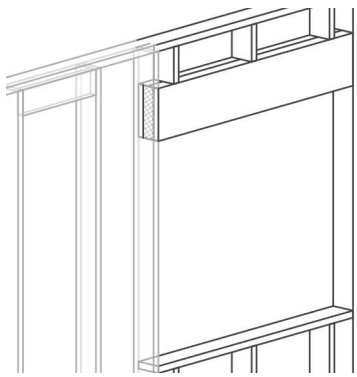


Small footprint and use of modular floor plans

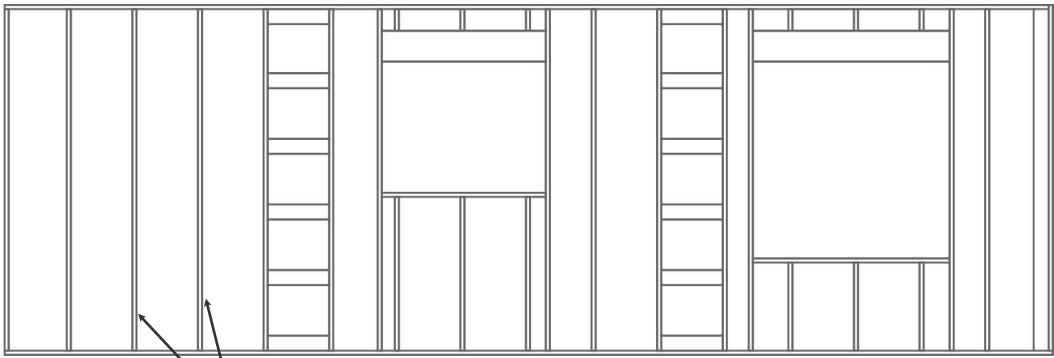
F R A M I N G

the Structure takes full advantage of advanced framing methods Which have been developed to better use insulation, thus making the building materially efficient.

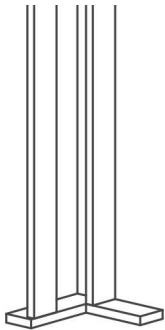




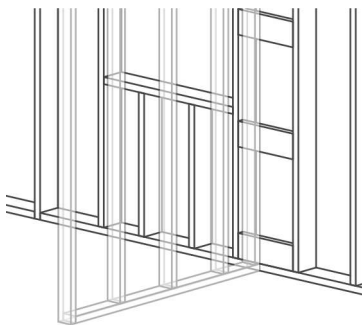
1_Header



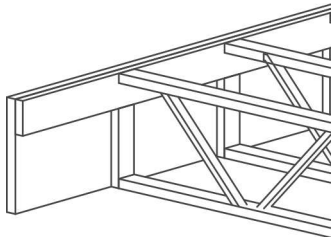
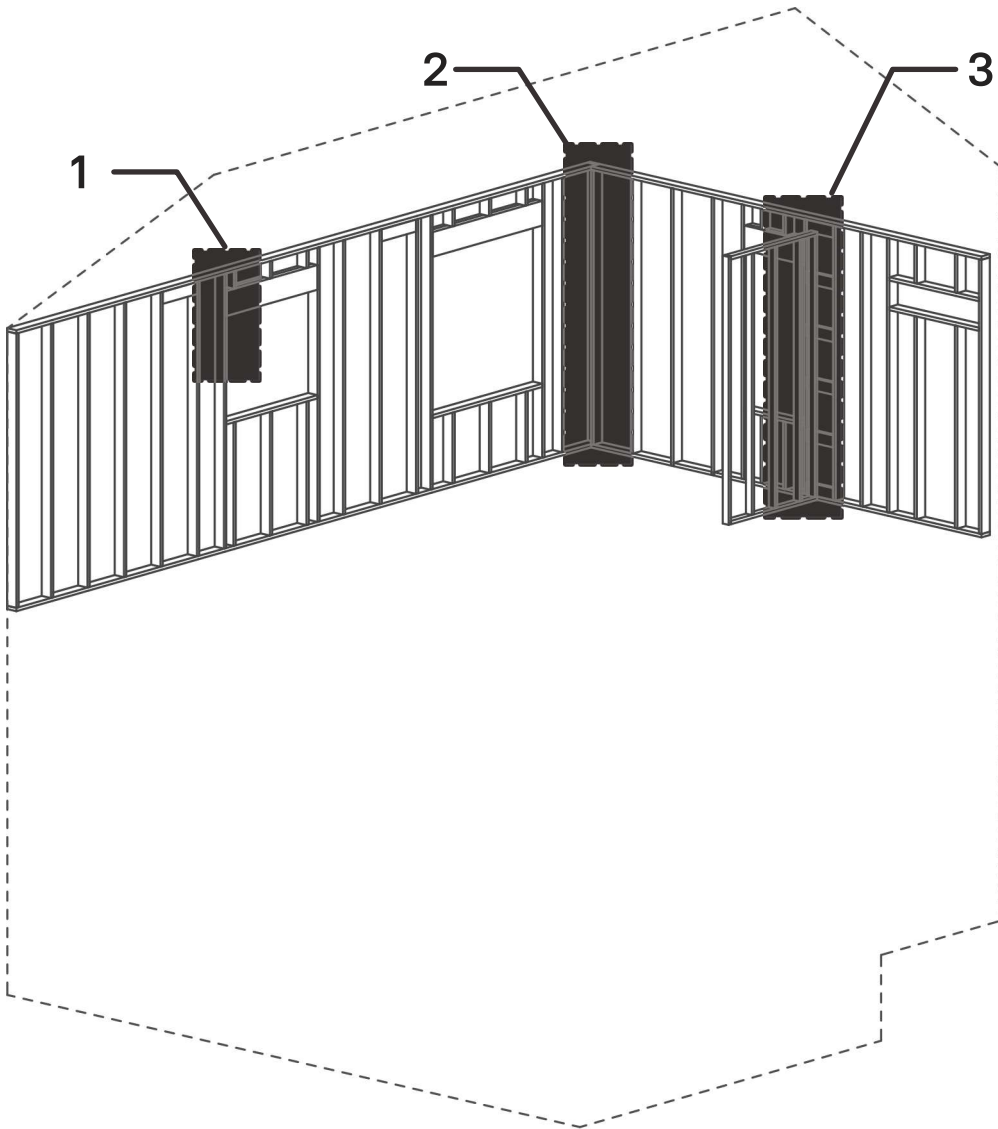
2x6 24" O.C.



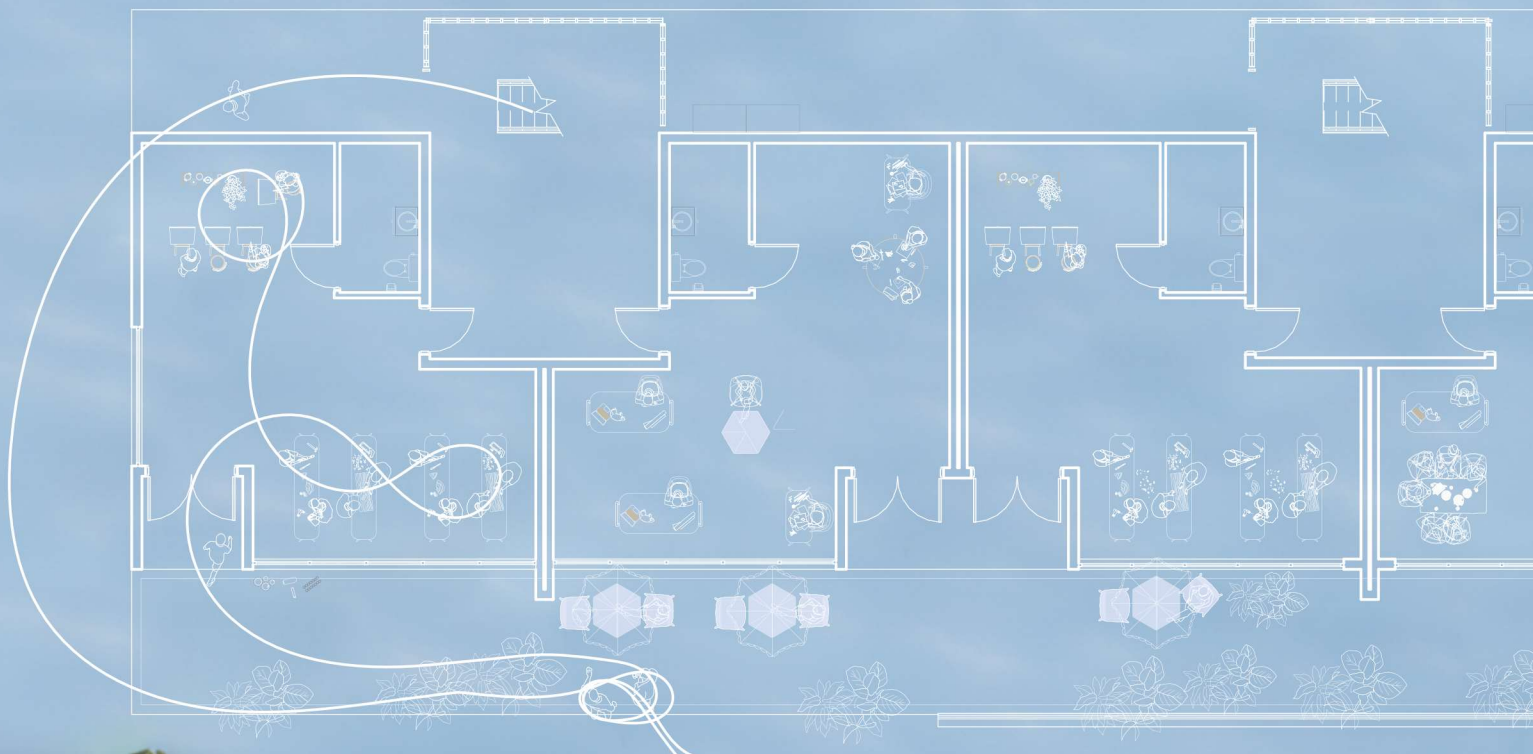
2_Corner

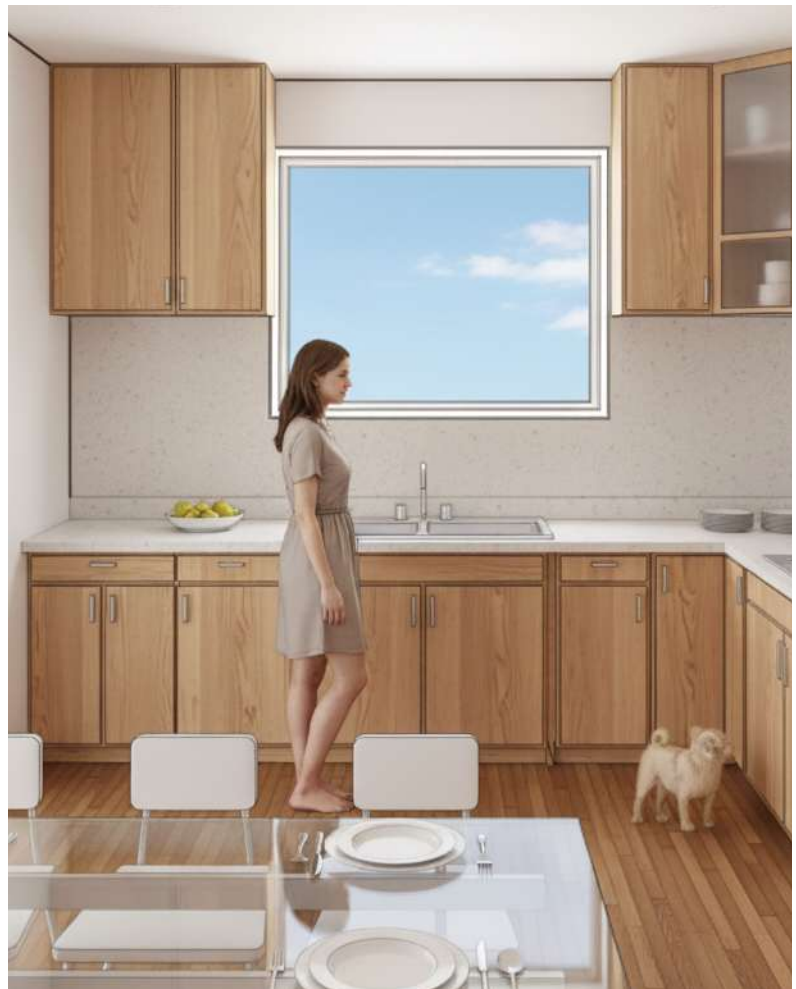


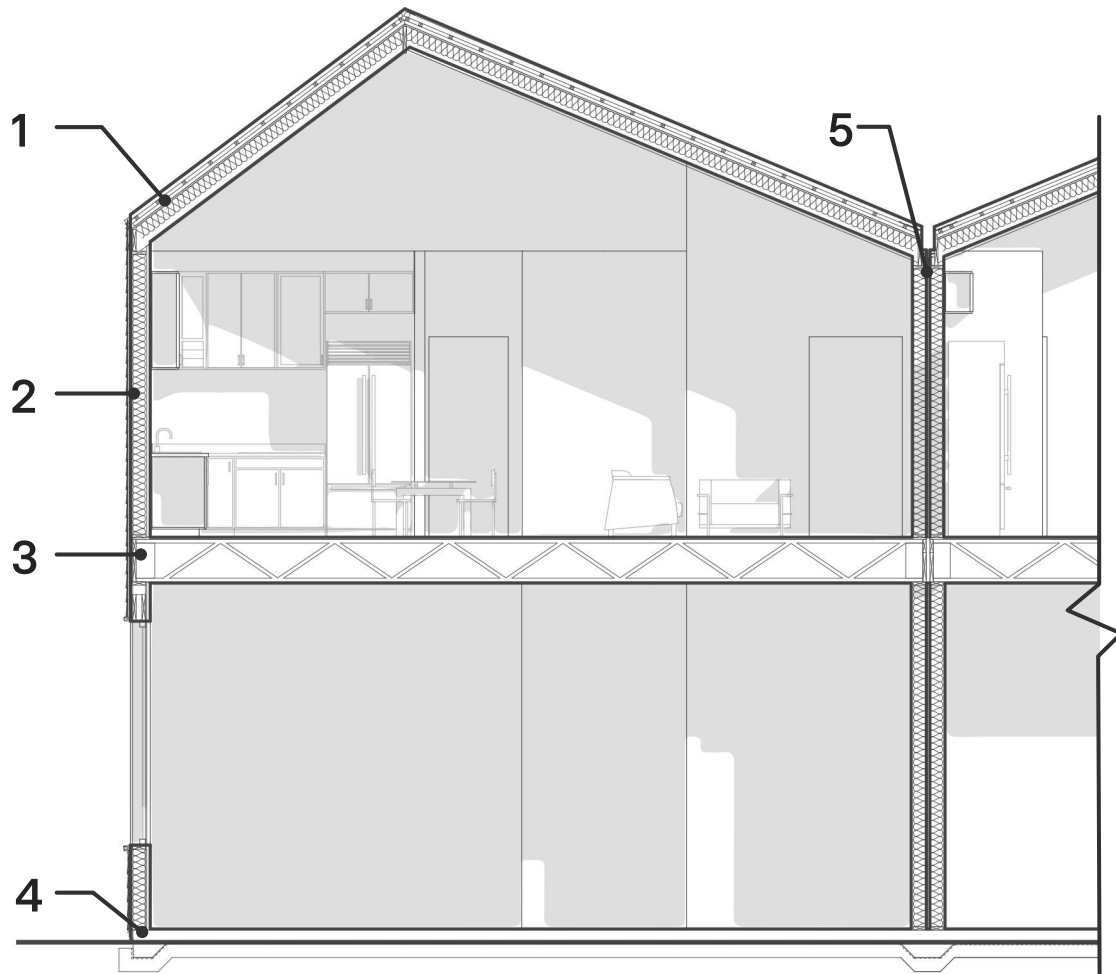
3_Interior WALL



Floor structure







1) Typical Roof Assembly (Outside to Inside) R-40

Metal roof panels
 1 1/2" x 1.5" Horizontal Furring Strips
 1 1/2" Rigid Insulation
 1/2" OSB Sheathing
 R-30 Fiberglass Insulation
 2x10 SPY Rafters
 5/8" Ceiling GYP Board

2) Typical Exterior Wall Assembly (Outside to Inside) R-45

5/16" Fiber Cement Siding
 1 1/2" Vertical Furring Strips
 2 1/2" Insulated Zip Sheathing
 R-21 Foil Faced Fiberglass Insulation
 2x6 Wood Studs 24" O.C.
 1/2" GYP Board

3) Typical Floor Assembly (Top to Bottom) R-36

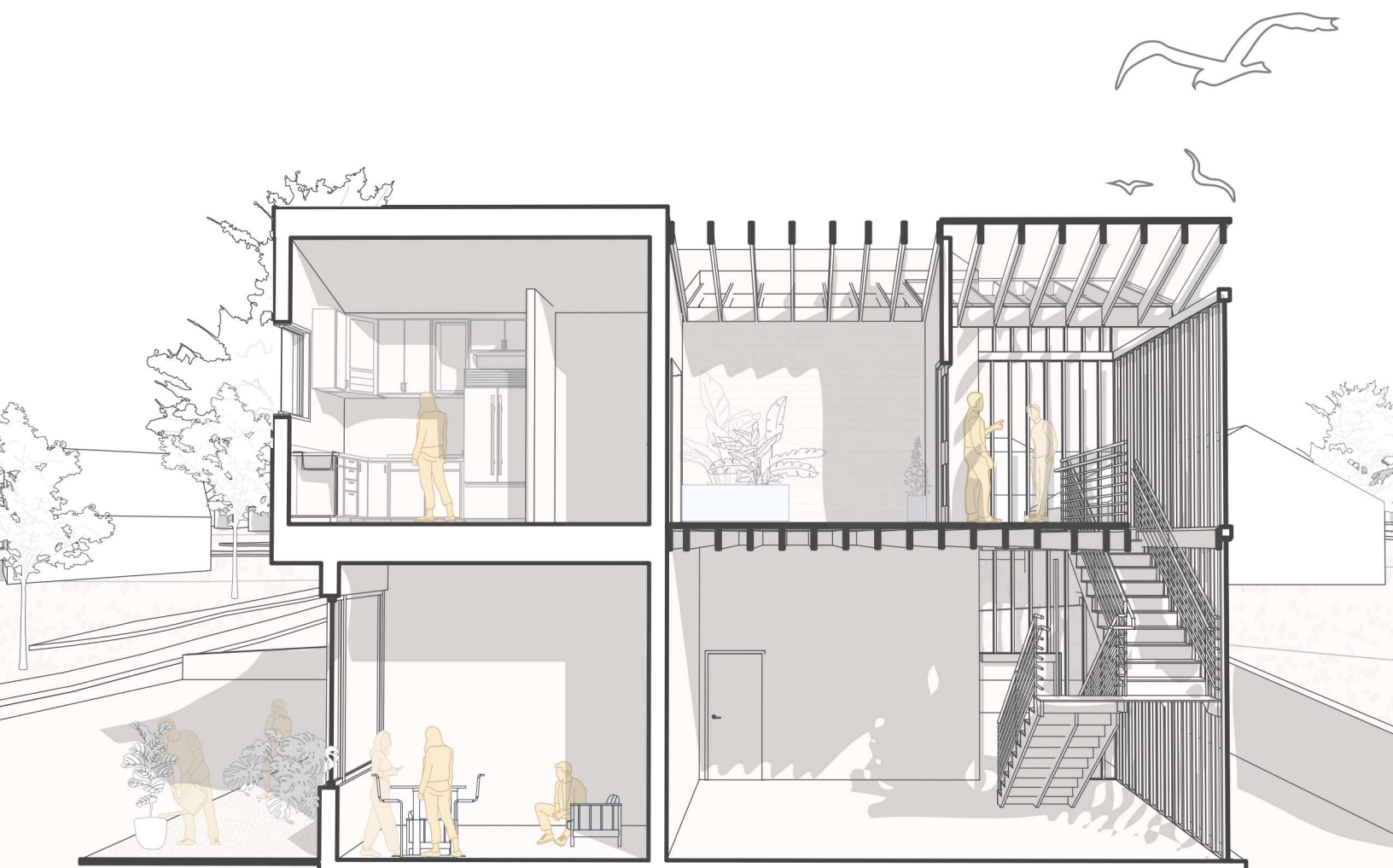
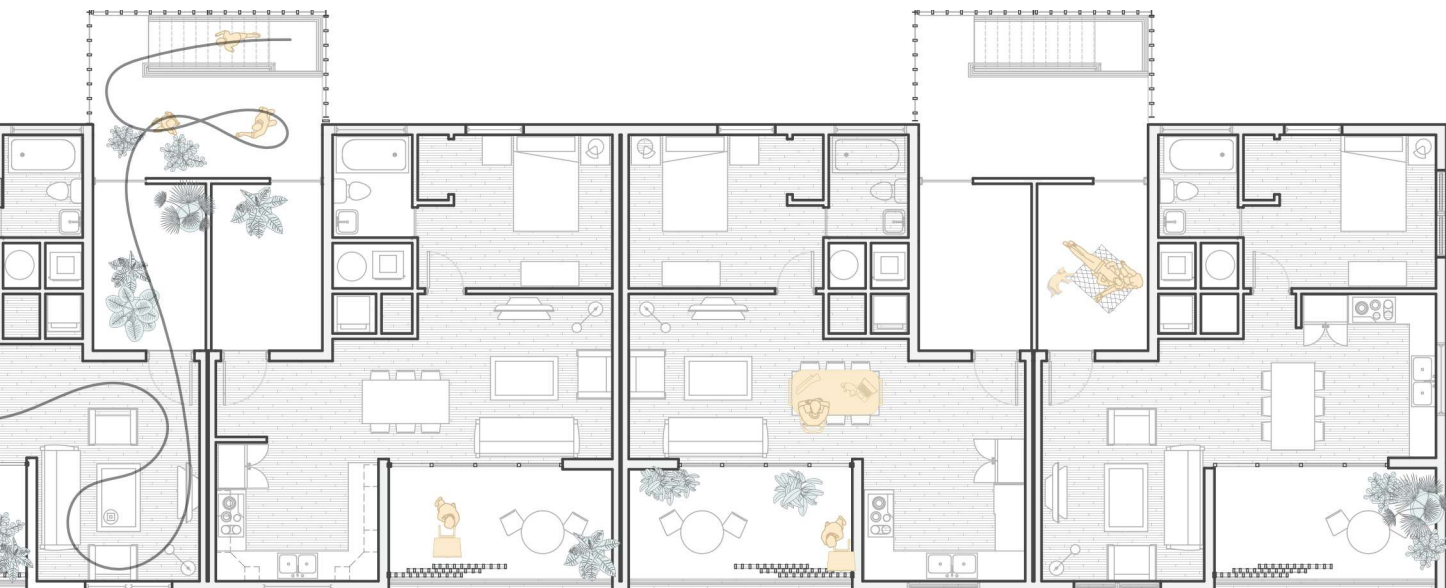
T&G Wood Flooring with applicable underlayment
 5/8" T&G O.S.B. Sheathing
 Blown Insulation
 18" (D) Engineered Floor truss
 5/8" GYP Ceiling Board

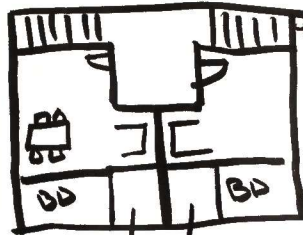
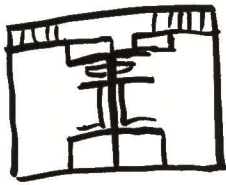
4) Typical Ground Floor Assembly (Top to Bottom) R-4

8" Concrete S.O.G, Grind and Seal Finish
 Continuous Vapor Barrier
 Capillary barrier; 6" Compacted Gravel
 Compacted Fill

5) Typical Sound Proof wall Assembly (Outside to Inside) R-24

2x6 Studs 24" O.C.
 R-21 Foil Faced Fiber Glass Insulation
 (2) 1/2" Gyp Board





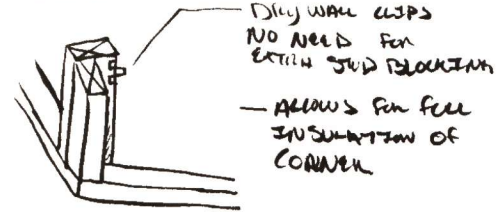
ADVANCED FRAMING TECHNIQUES

CALIFORNIA CORNER

② CORNER BOTTOM PLATE

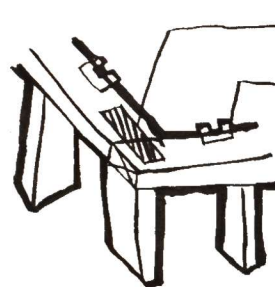
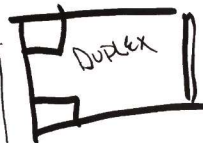
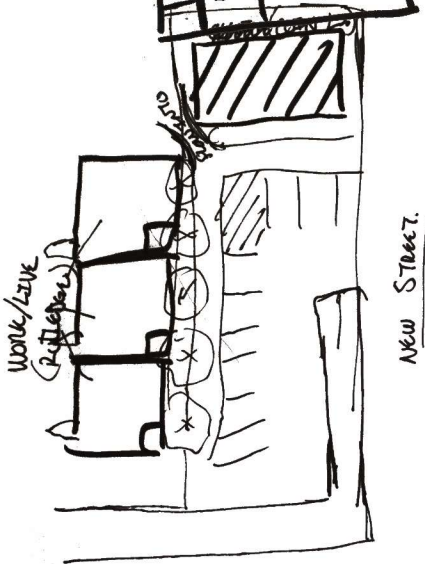


CORNER TOP PLATE



DRY WALL CLIPS
NO NEED FOR
EXTRA STUD BLOCKING

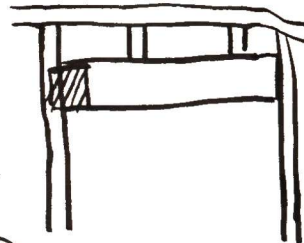
— ALLOWS FOR FULL
INSULATION OF
CORNER



METAL STRAP TIES
WALLS TOGETHER

BACK UP CLIPS
NO NEED FOR DRY WALL
BLOCKING

HEADER FOR HEAVY LOADS.

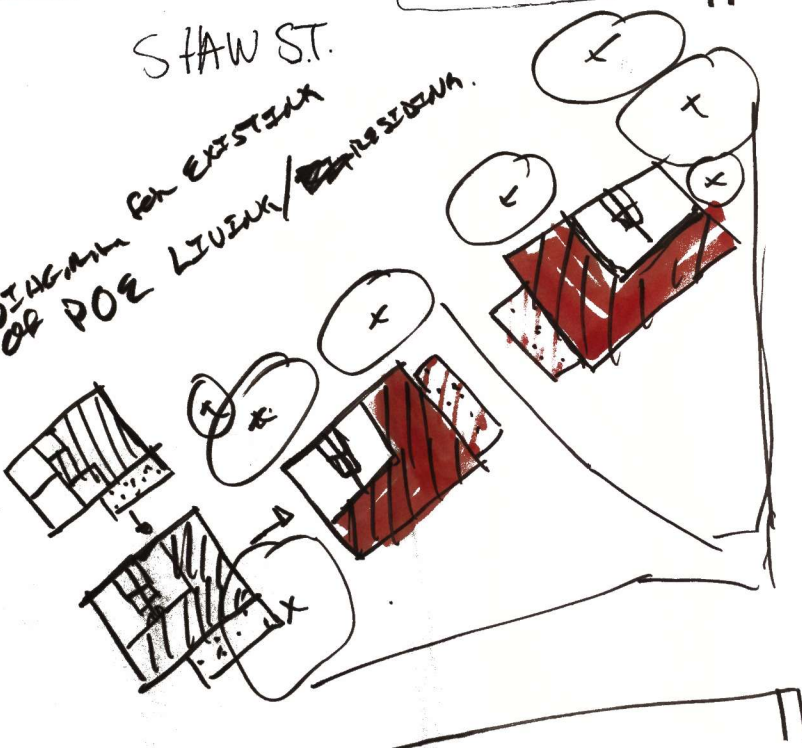


— SMALL TOP
PLATE

— USE THE BRACKETS
TO SUPPORT
HEADER
ON KEEN STUD

STAW ST.

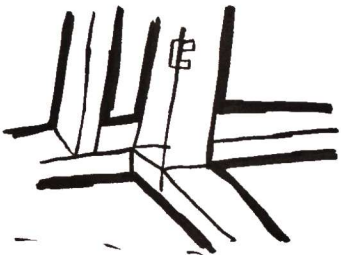
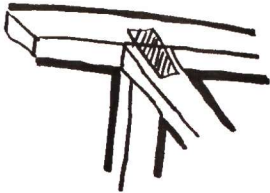
DIAGRAM FOR EXISTING
OR POE LIVING/RESIDUAL.



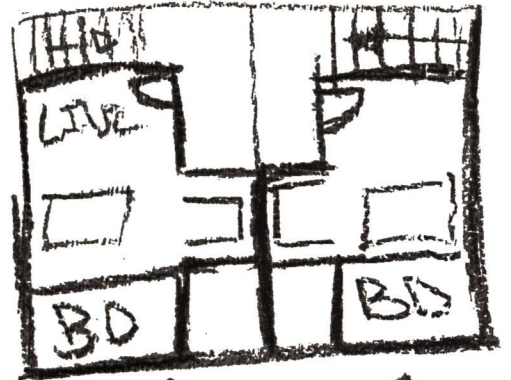
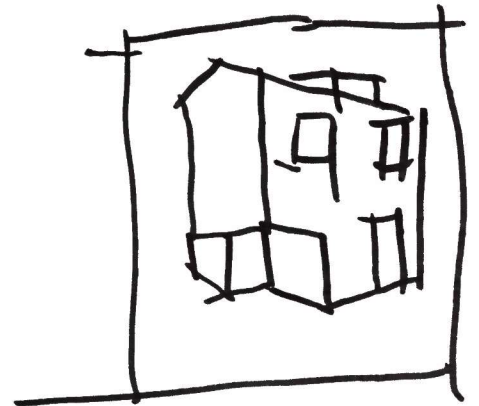
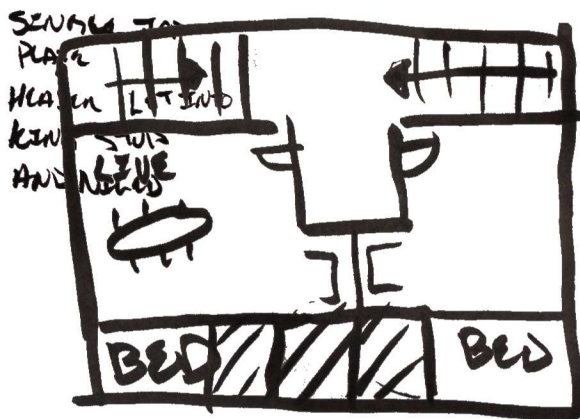
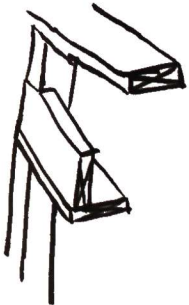


END OF BOOK 2

© INTENSIFICATION CONCRETE
- SAME IDEA AS CONCRETE.



FOR LIGHT LOADS.

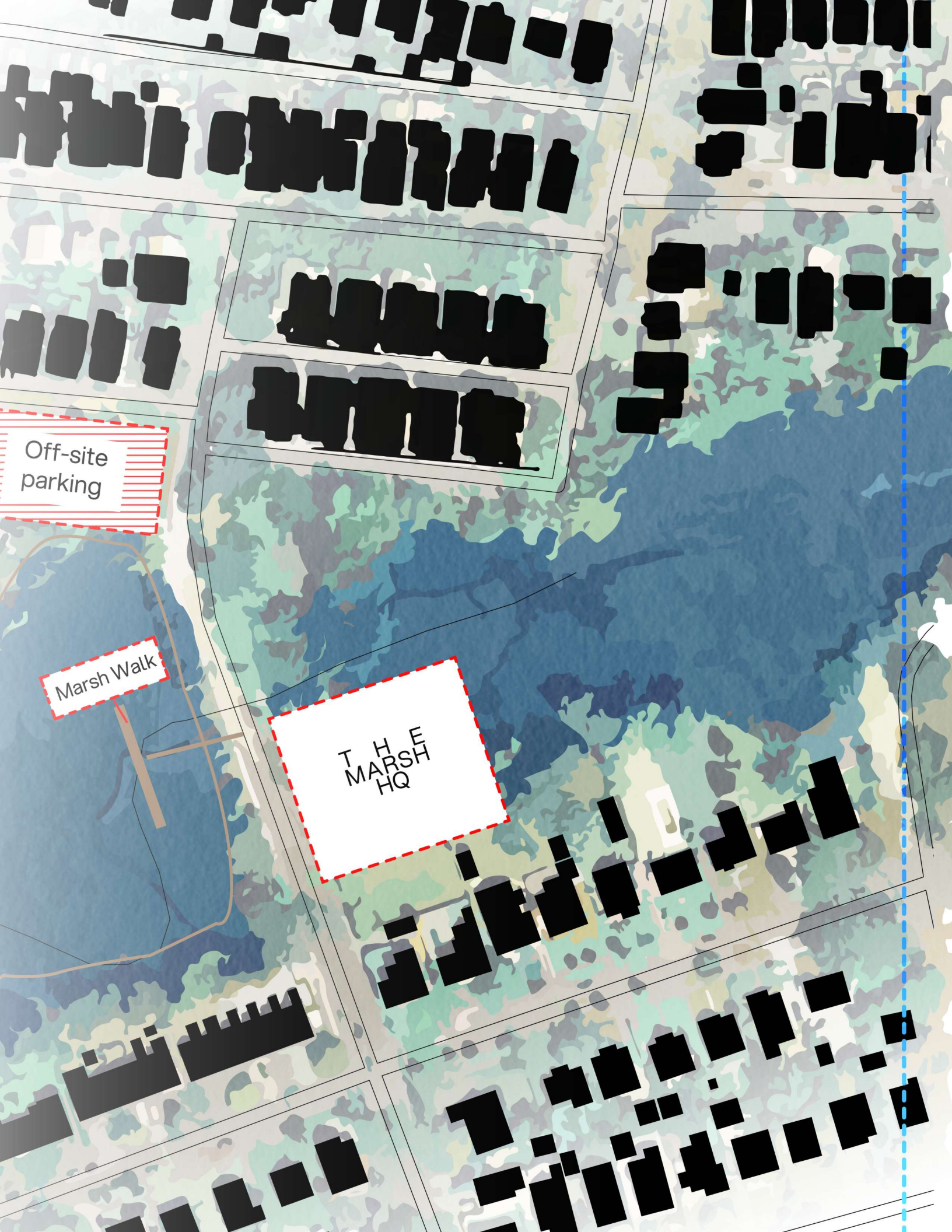




THE MARSH H Q

BOOK

3



Off-site
parking

Marsh Walk

T H E
MARSH
HQ

High-end living residential



Middle Class
residential, in
need of
maintenance

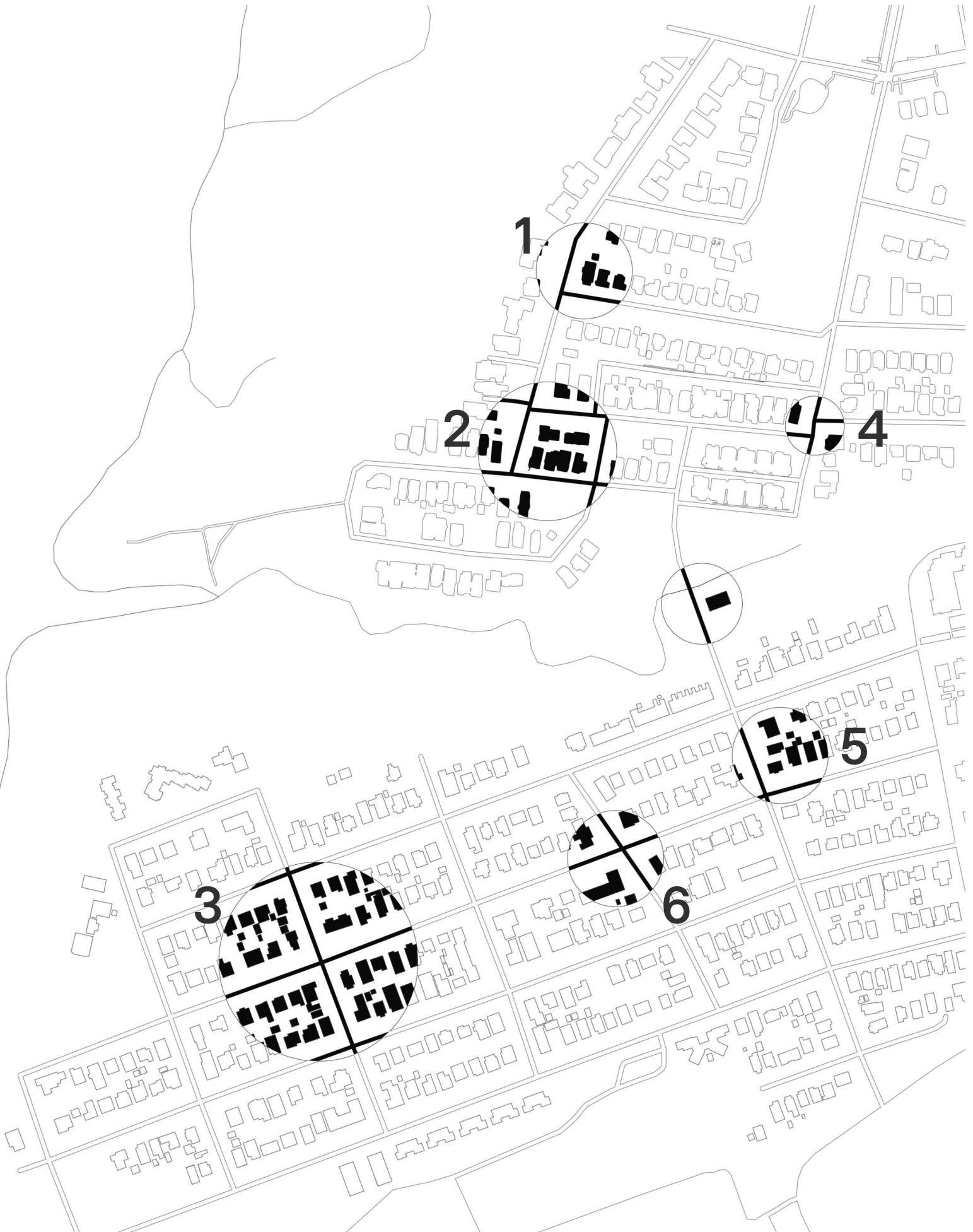


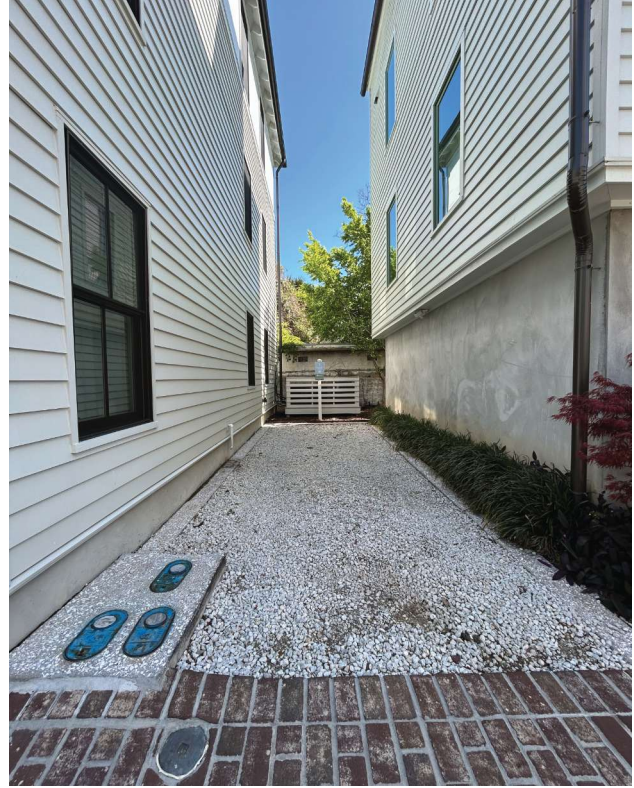
SITE CONTEXT

In this studio, we sought to find ways to revitalize Charleston's ecological corridor, while at the same time designing for a structure that fits within the historical architectural fabric of Charleston. The aim of the building was to provide a facility so that the non-profit called The MARSH project could work out their day to day activities.

Sitting on a marshy site, the Marsh HQ is connected with its environment. It provides the members of the non profit the ability to work directly within the neighborhood and create awareness of their ethos.

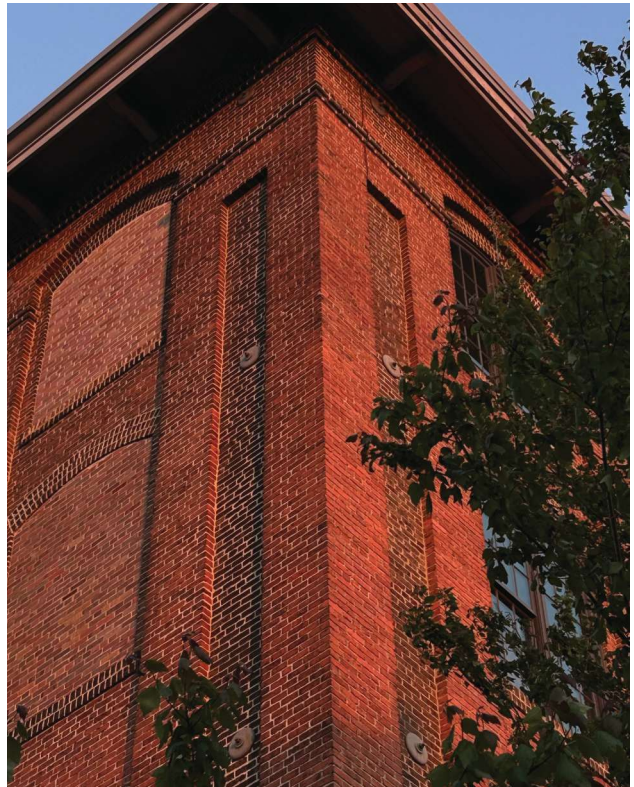
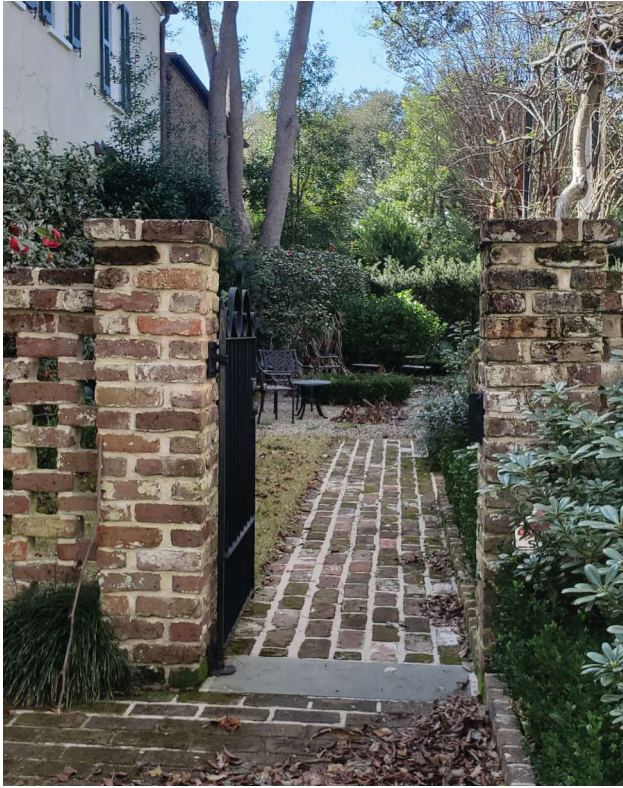


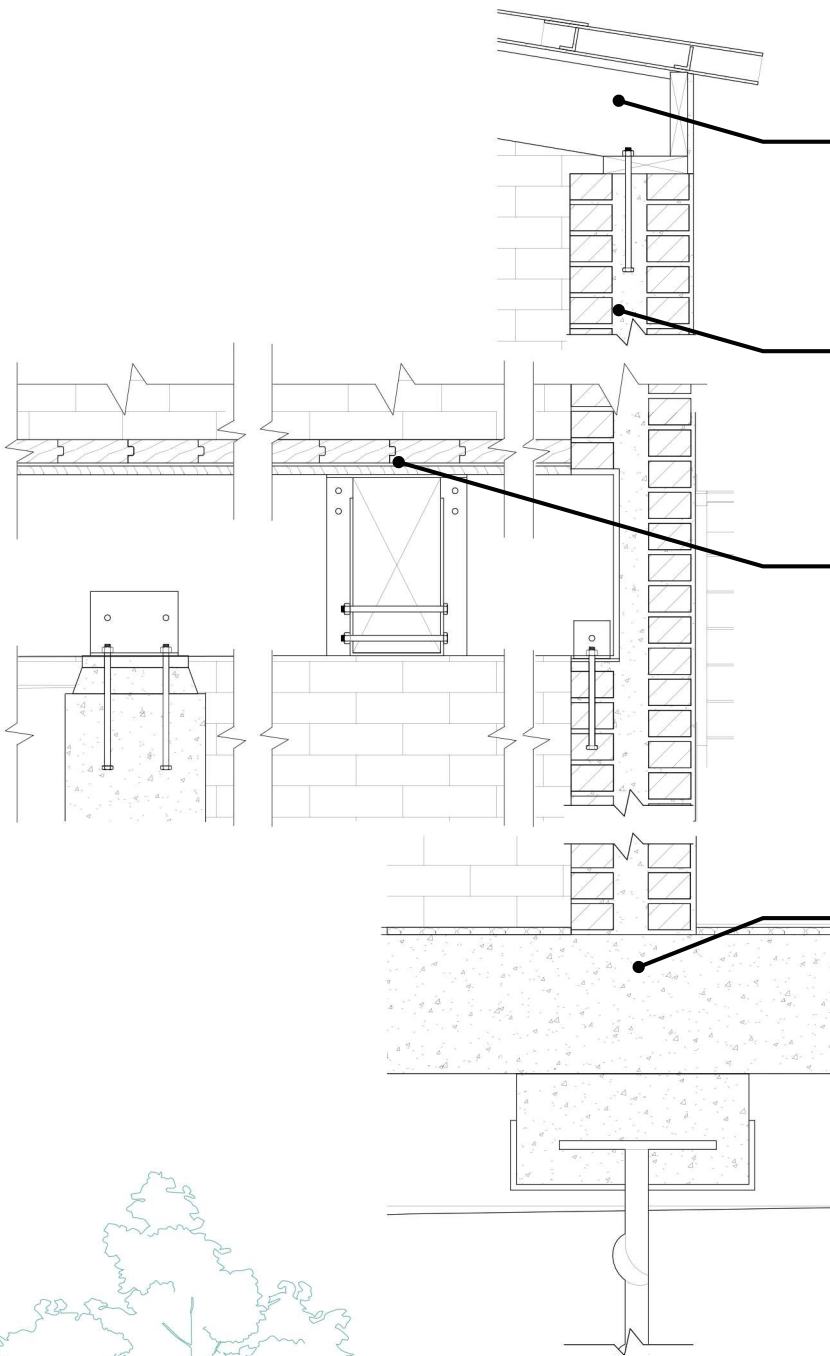




HISTORICAL ARCHITECTURE

Charleston, a place rich in history, maintains his architectural fabric as a living museum. The city has many overlapping styles, including colonial, neoclassical, and Victorian. Some the city's main identifying features include piazzas, narrow and detailed alleys, and the use of materials like brick, stucco, wood, and use of foliage on facades.





Typical Roof Assembly

10"x19" Spanish tile with 3" overlap
 Mass Timber Frame Construction
 1 1/2" Rigid insulation
 1/2" O.S.B. Sheathing

Typical Exterior Wall Assembly

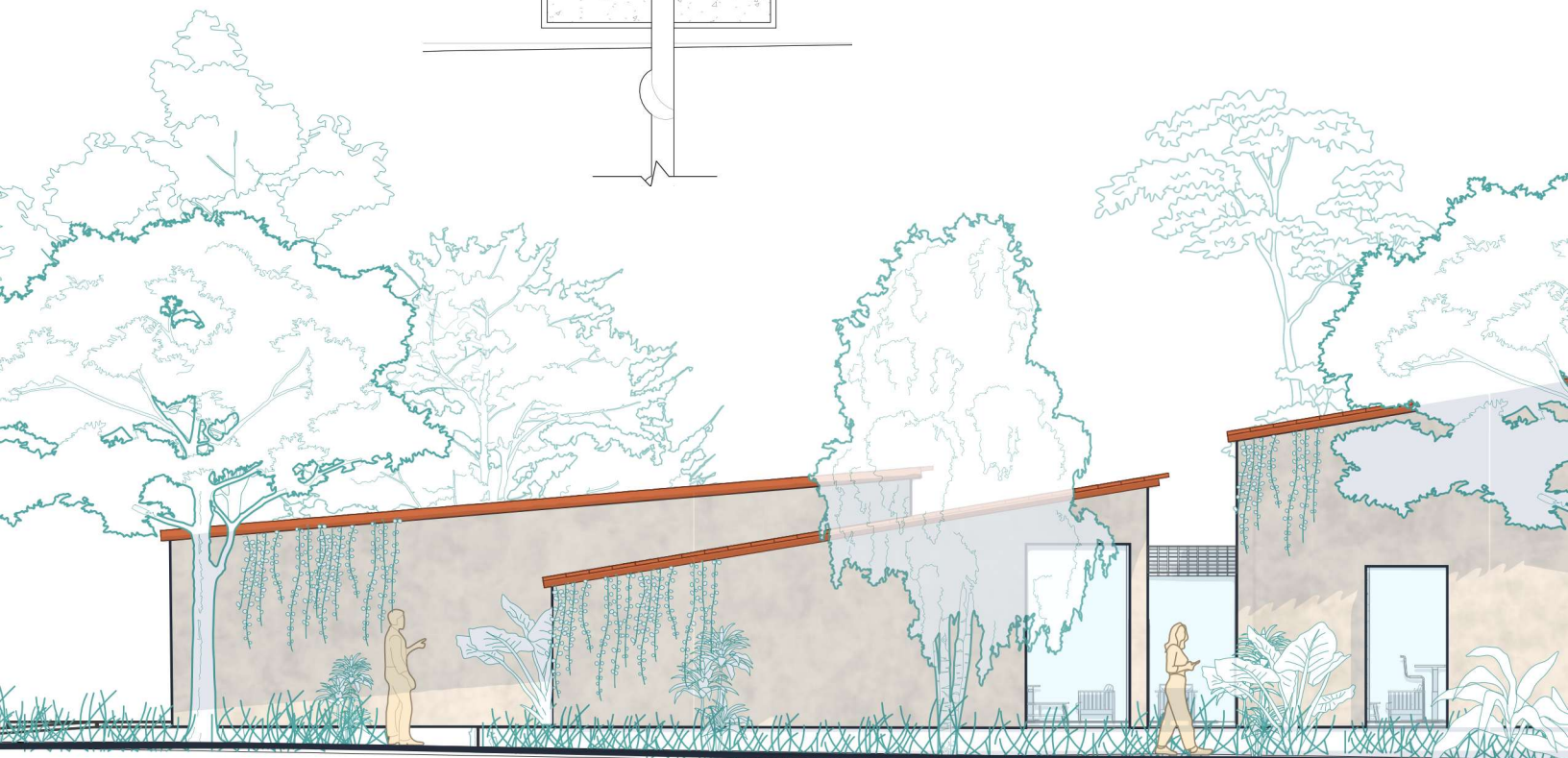
Reinforced brick wall, Exterior finish: Stucco
 Interior Finish: Lime wash

2nd Floor Assembly

2"x6" T+G Flooring
 1/2" O.S.B. Sheathing
 8"x16" Solid Timber Girder secured w/ prefab. Beam seat
 8"x16" solid timber beam @ 6' O.C. w/ Exposed Beam Hanger
 Girder Connection to Column

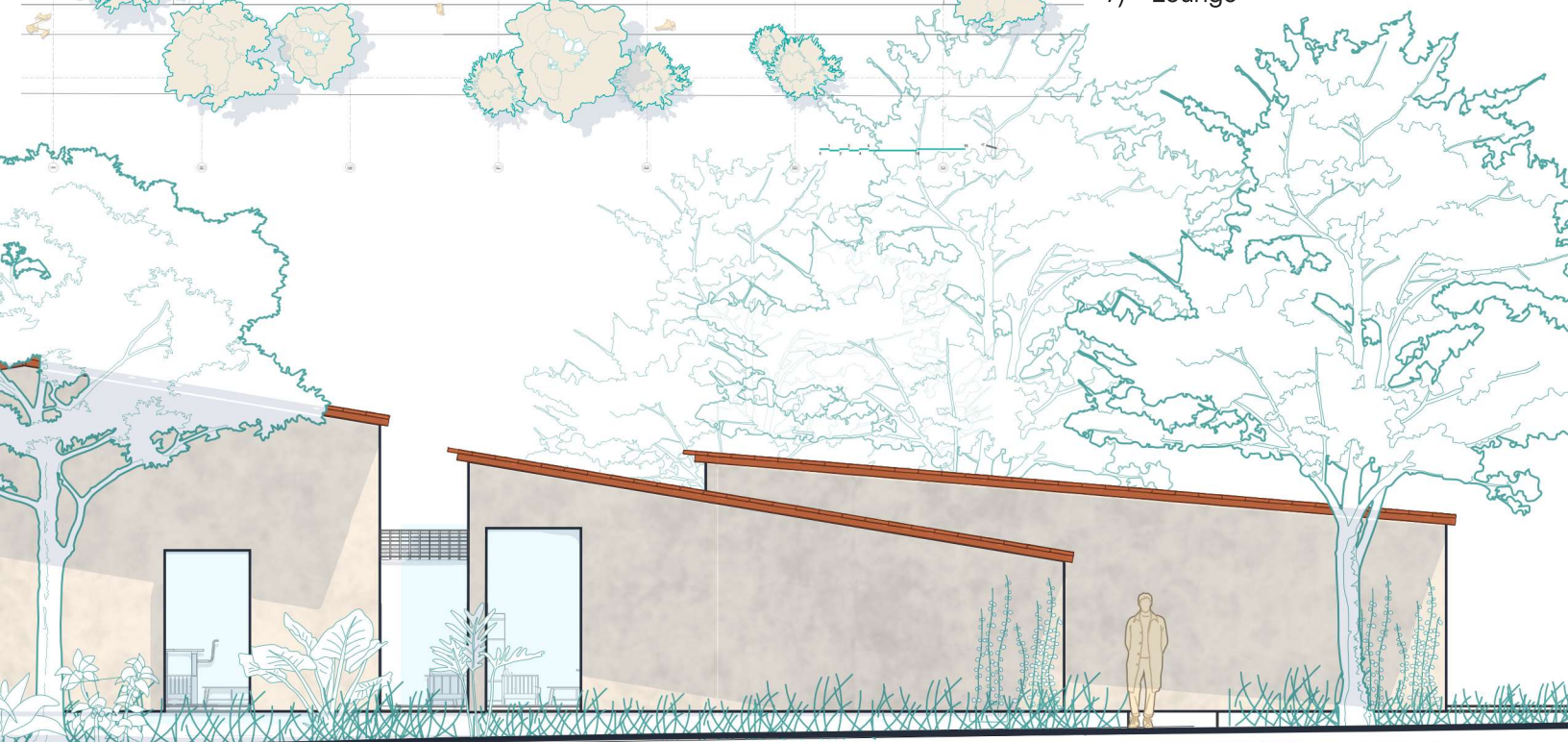
Typical Floor Assembly

Terrazzo Flooring
 Concrete Base
 Supporting Concrete Beam
 Helical Pile





- 1) Reception
- 2) Office space
- 3) Multi-use
- 4) lab
- 5) Nursery
- 6) Observation deck
- 7) Lounge



The MARSH HQ



Surrounded by the environment, the MARSH HQ stands as the headquarters of the non profit. Providing workshops, labs, office space and a nursery.

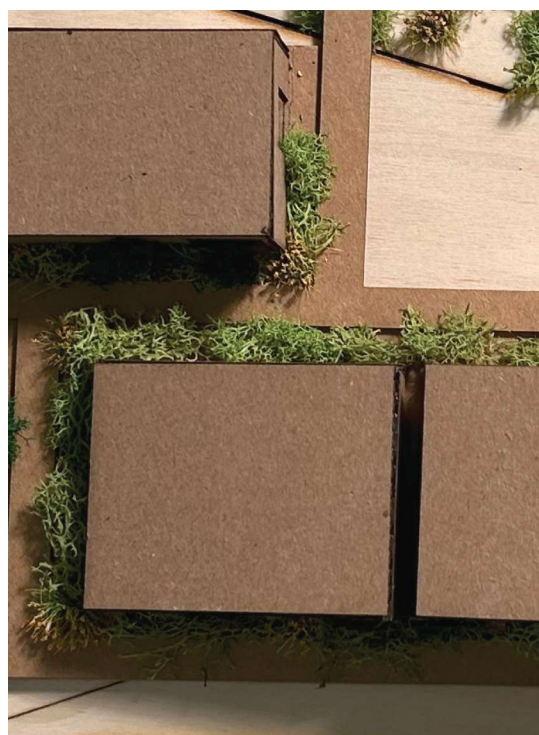


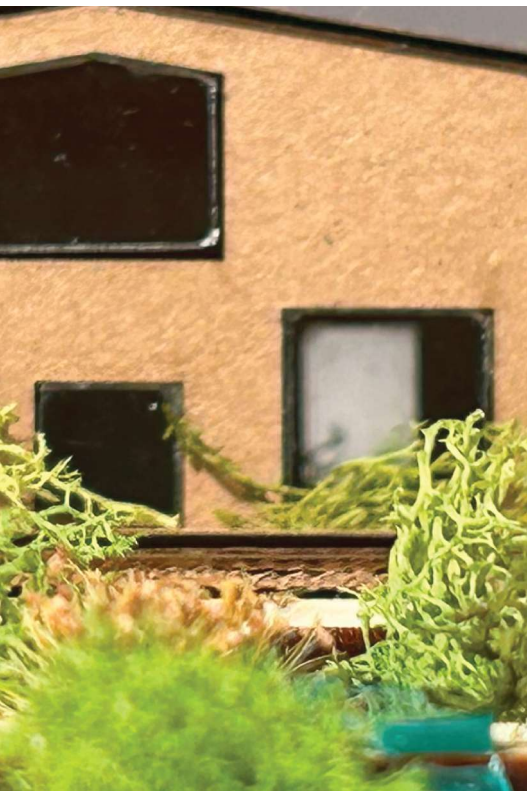


SH HQ

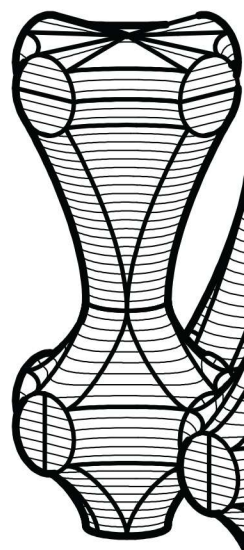
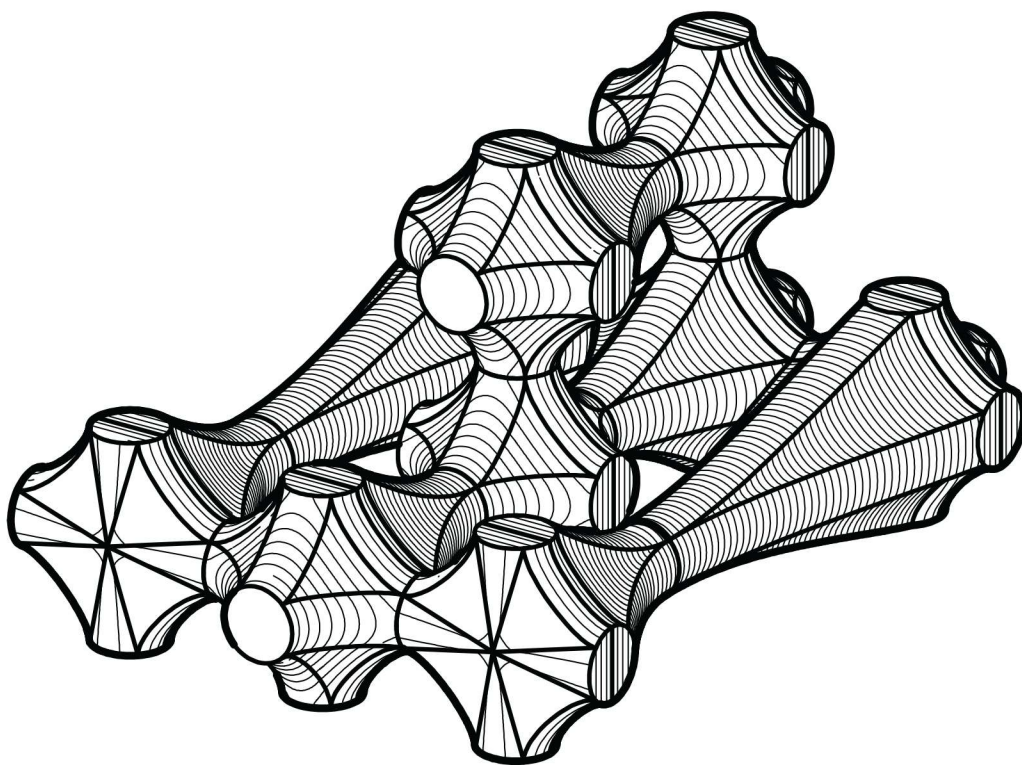
While also utilising narrow pathways lined with dense planting, proposed HQ creates architecture that is a contemporary interpretation of Charleston's principles.

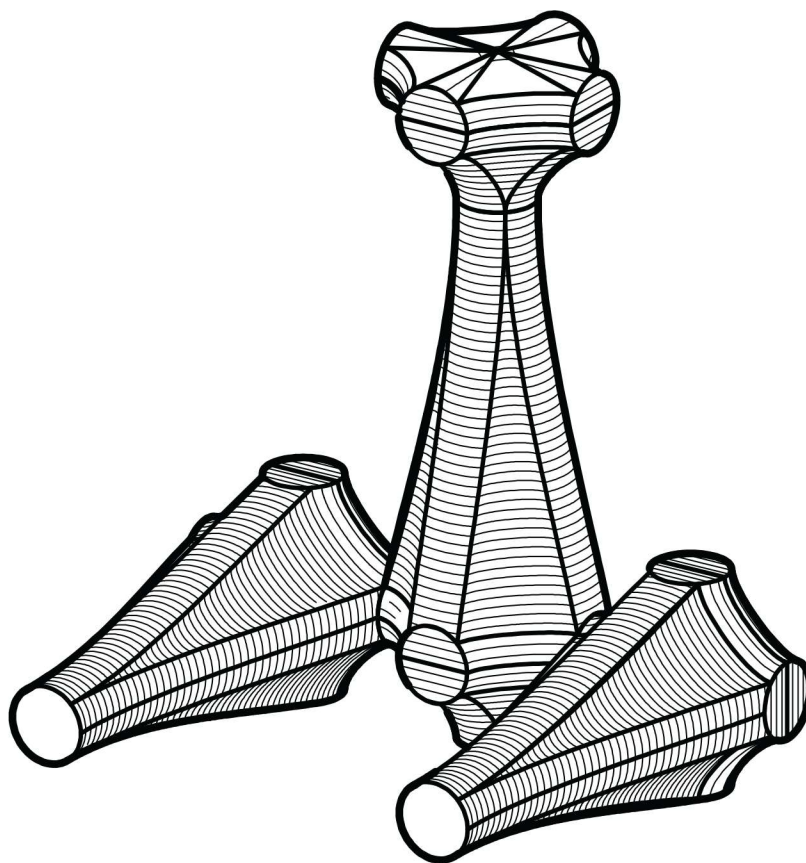
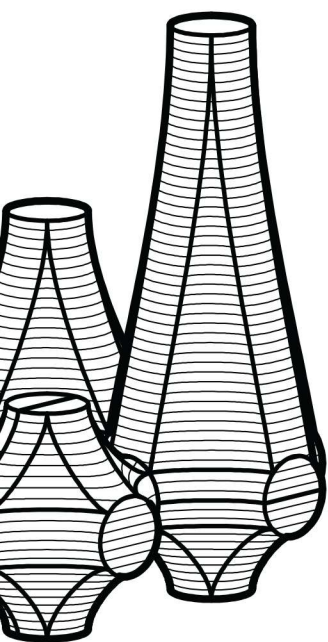
END OF BOOK 3





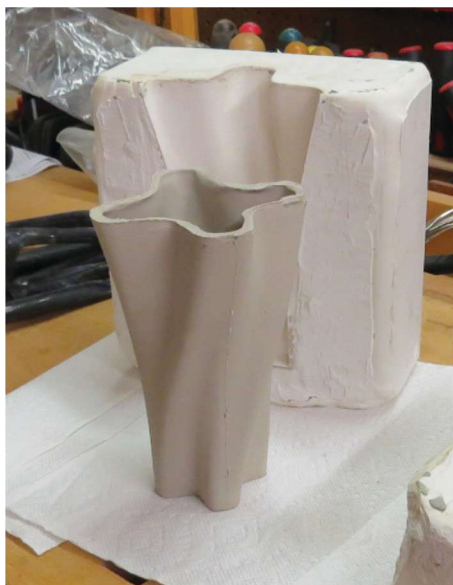
INTER LOCK ING BOOK 4





CLAY SLIP + PLASTER MOLDING

Forming ceramics from plaster molds is a lengthy process with many steps. Our goal throughout this project is to create an object through the combination of ceramic pieces joined to one another.



Ceramico Cumella
2013
Joseph Regas

SLIP THICKNESS

We conducted multiple material tests. The main test of our process was the amount of time the clay slip needed in the plaster mold. In the end, the sweet spot was between 20-25 minutes. This allowed the plaster enough time to absorb enough water so that the clay slip that was left had the right thickness to be strong.



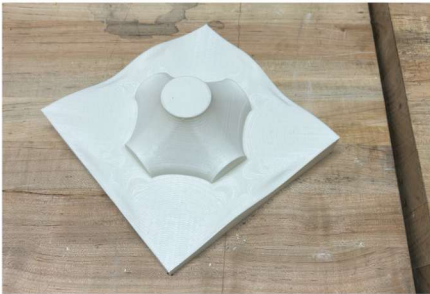
BONDING METHODS

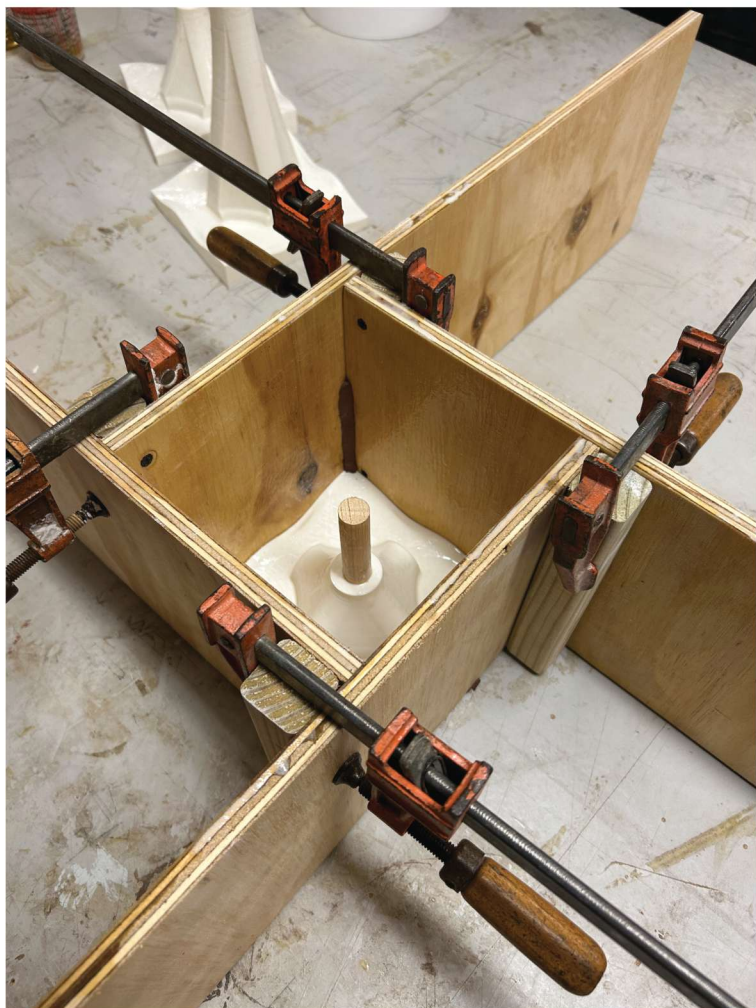
One Method that was particularly effective in bonding clay, was using vinegar. It could dissolve clay when it was dry and allowed it to be joined to other pieces or more slip.



M O L D S

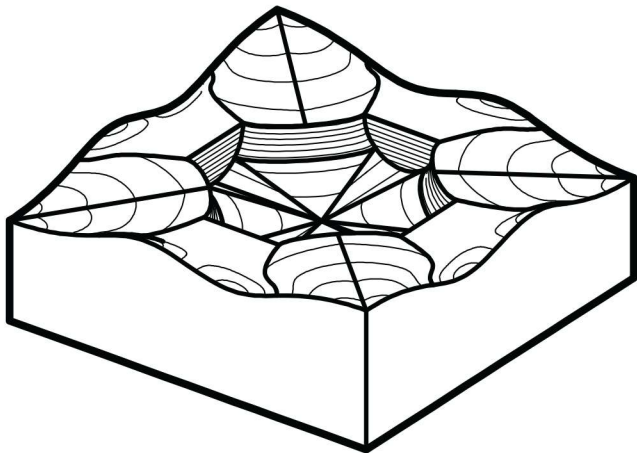
Starting out with a 3D Printed Model, coat in Murphy soap, set in wood support, mix and pour plaster, connect the top, and pour the slip.



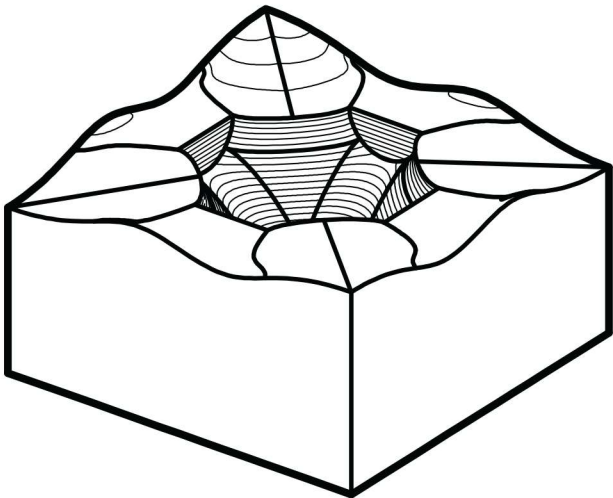


COMPONENT CATALOG

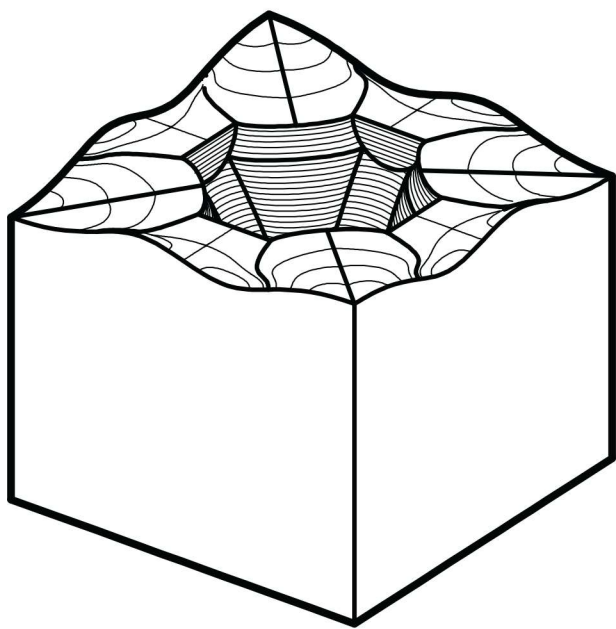
These drawings are a catalog of the components that were made for the project. It consists of plaster molds ranging from the decorative capstone piece call "cap," to a small, medium, or large size mold. Due to the nature of the project, it was imperative to have these plaster molds perfect so that everything would just fall into place.



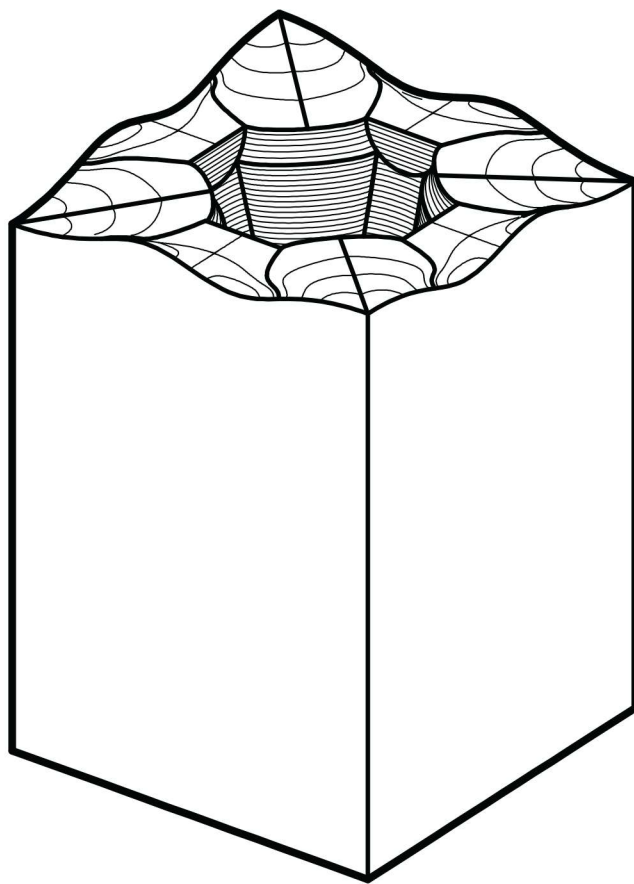
Component 1: Cap



Component 2: Small



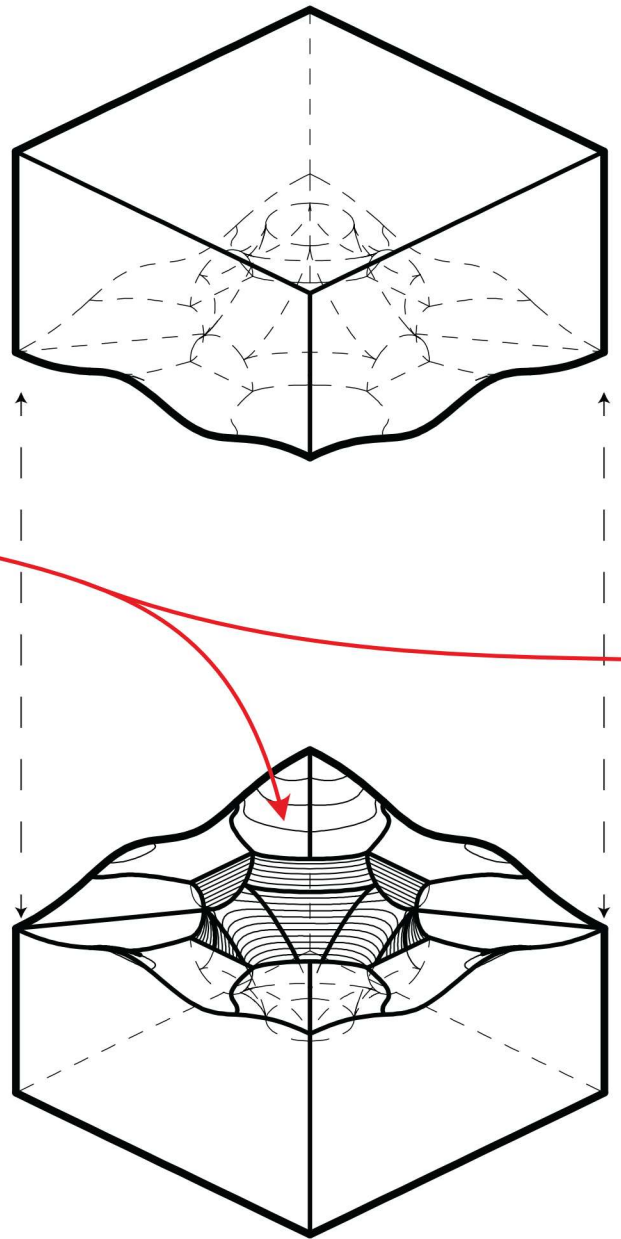
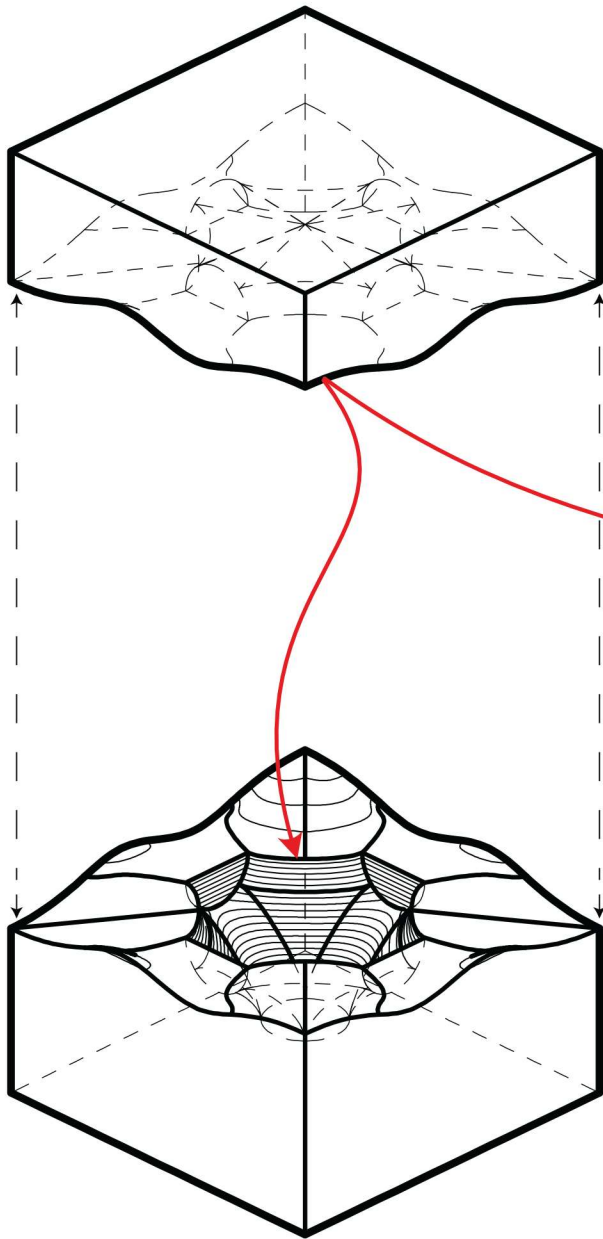
Component 3: Medium

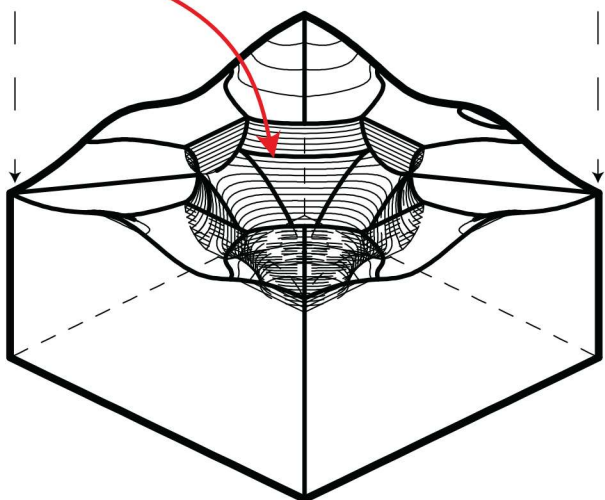
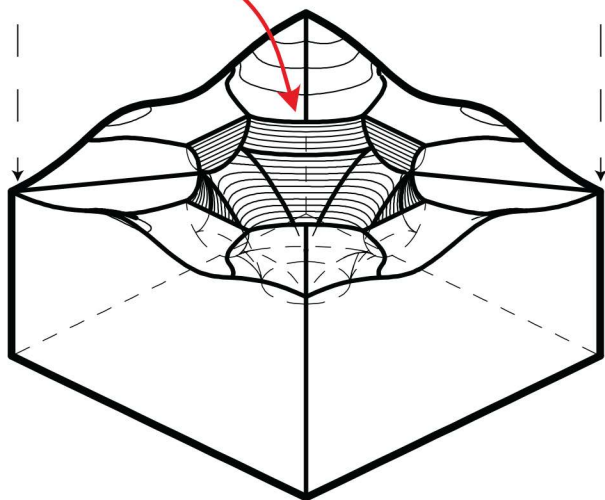
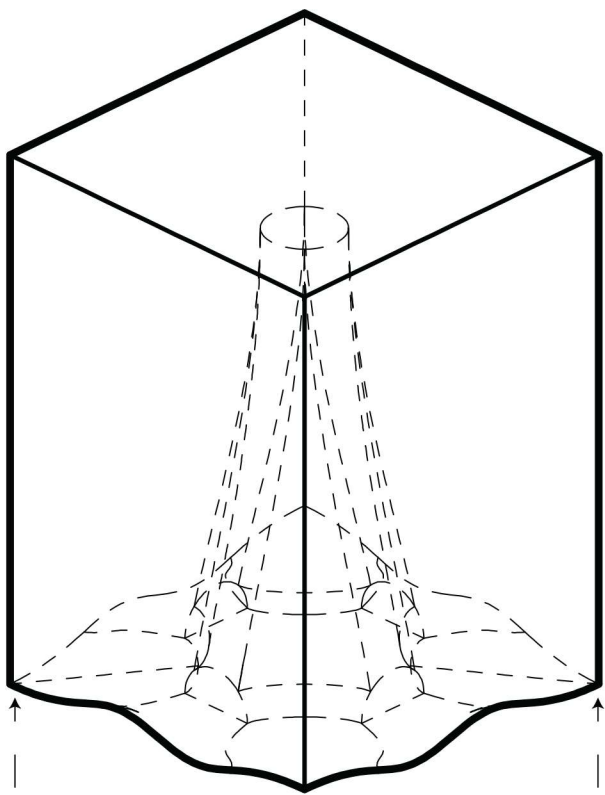
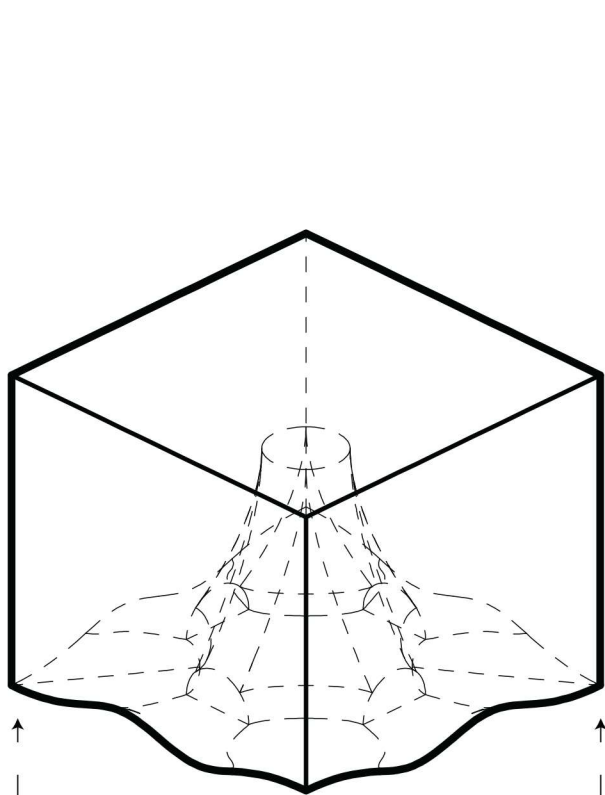


Component 4: Large

INTER- LOCKING METHODS

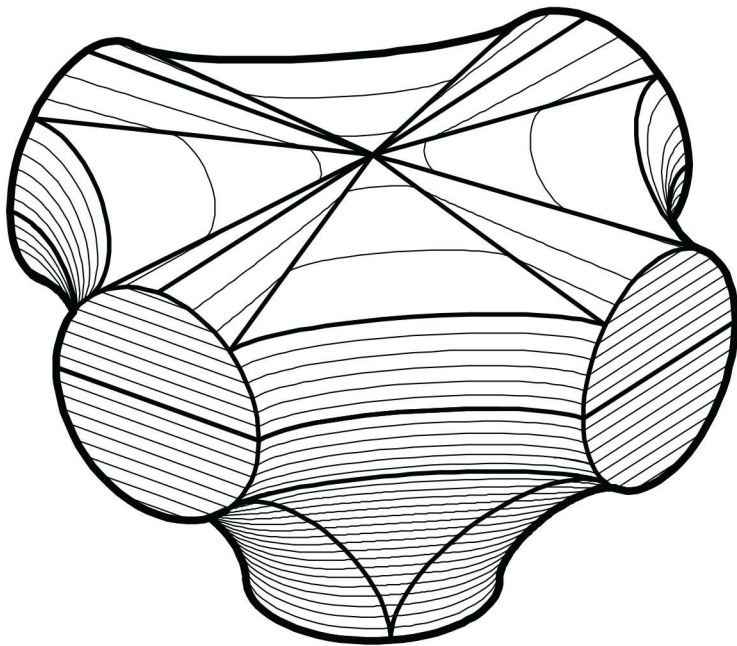
In order to ensure that the plaster molds connected together perfectly, a wavy seam was added to the molds. With this, the plaster molds would connect with each other no matter the rotation of the mold



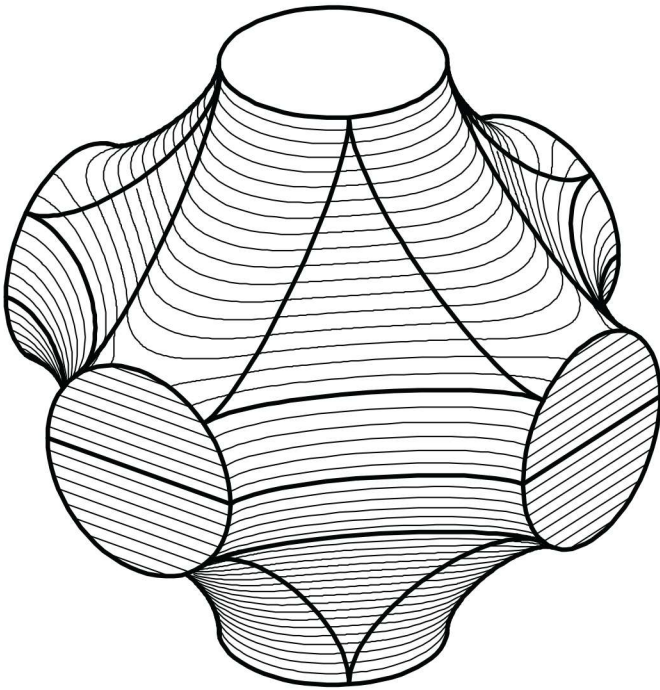


RULES OF COMBINATION

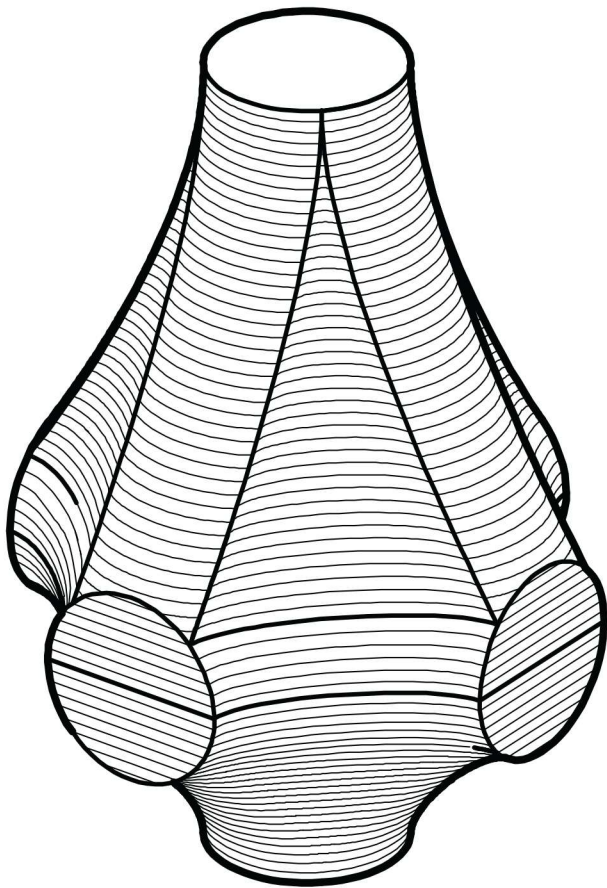
There are a total of 4 ways to make a combination.
Every combo has to have a small piece by default.
Then there is the small, medium, tall or a cap.



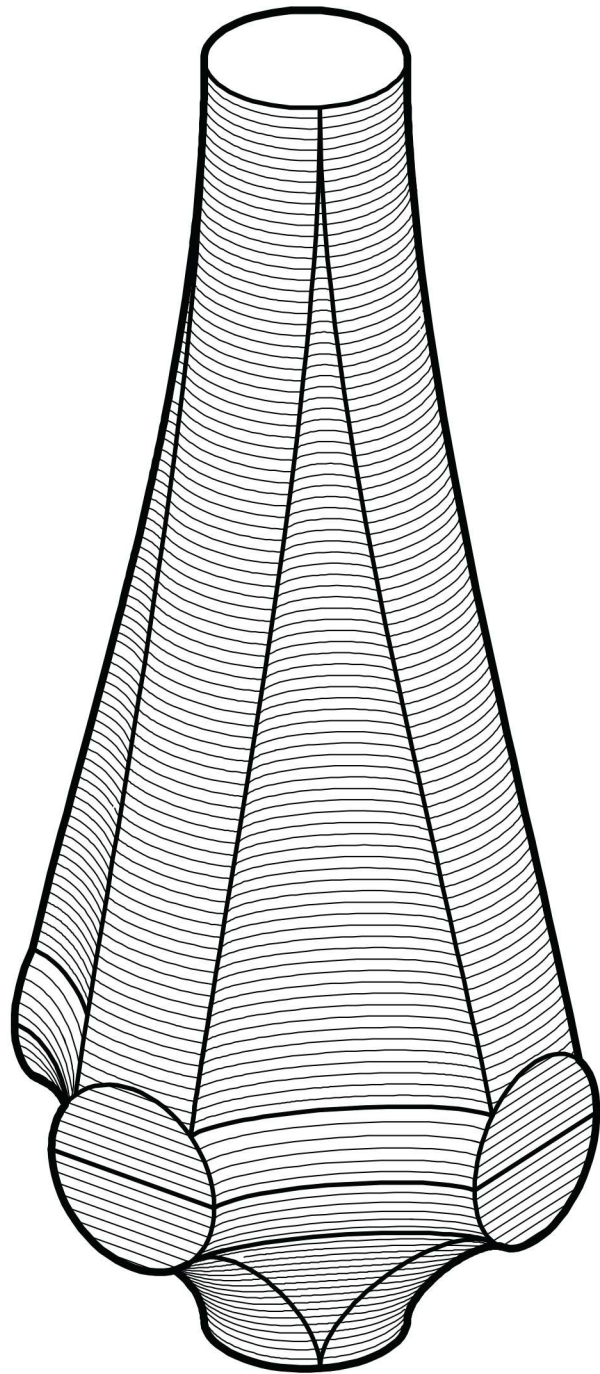
Type 1: Small + Cap



Type 2: Small + Small



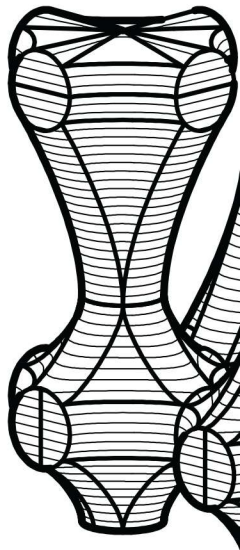
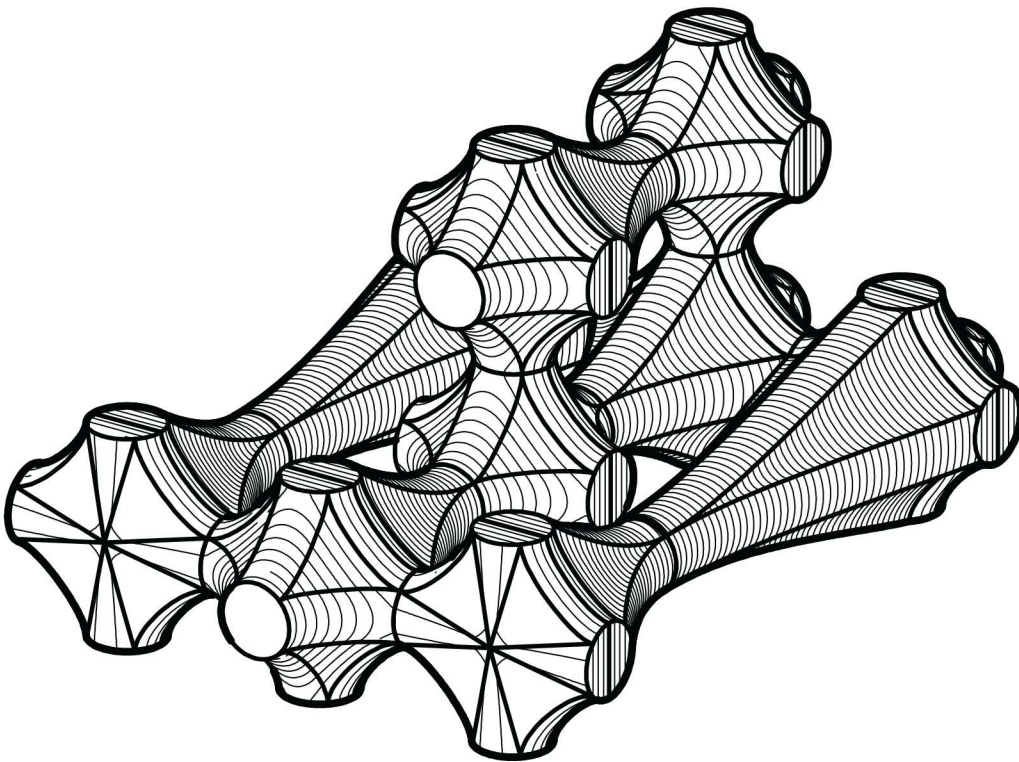
Type 3: Small + Medium



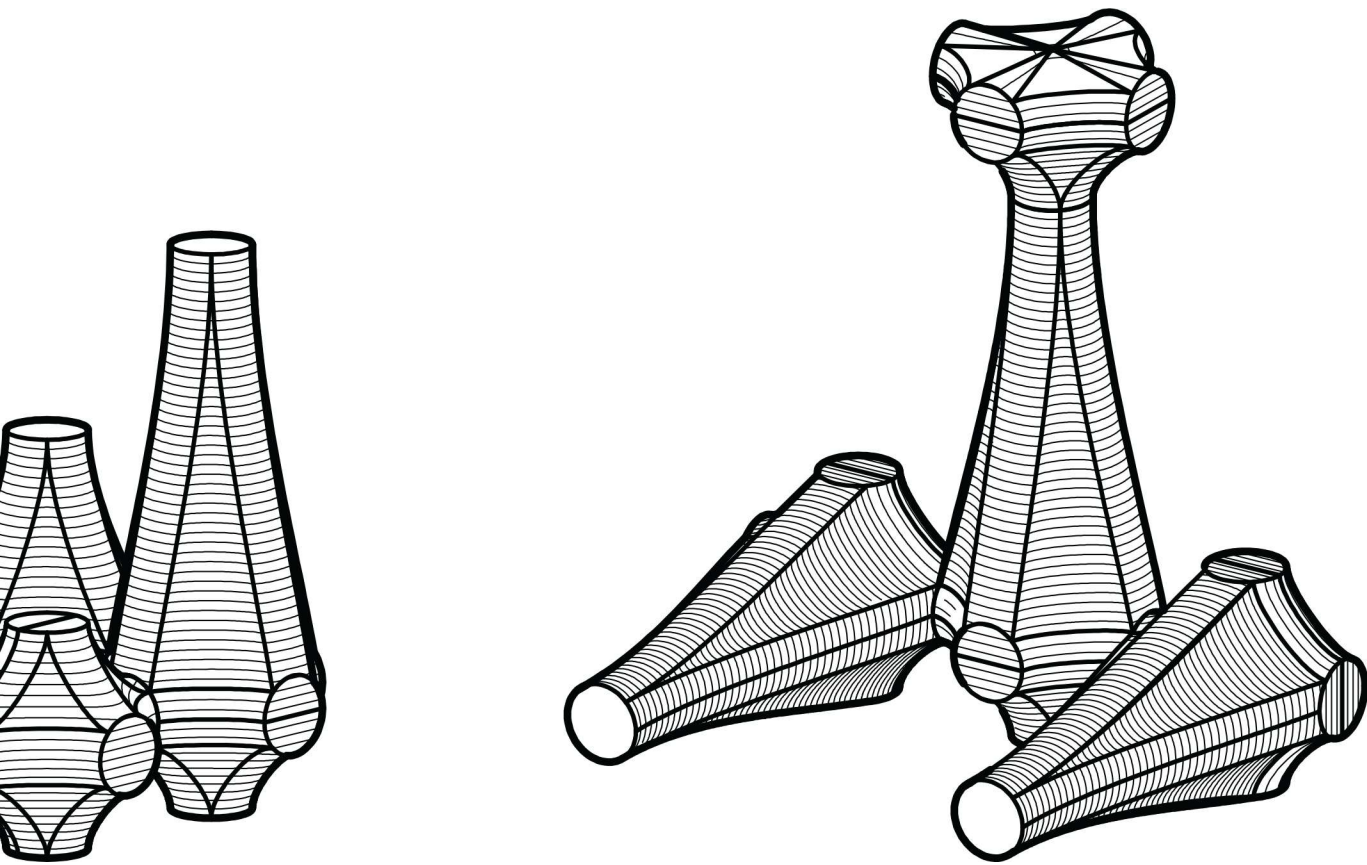
Type 4: Small + Large

APPLICATIONS

The end product allowed complete freedom when assembling the final results. In the end its really up to the user's imagination as to what can be made out of the pieces. Here are a few.



END



OF

BOOK

4

